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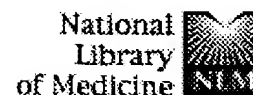




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




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
Therapeutic implications for interferon-alpha in arthritis: a pilot study.  
J Rheumatol. 2003 May;30(5):934-40.  
PMID: 12734885 [PubMed - indexed for MEDLINE]

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RANKL and RANK as novel therapeutic targets for arthritis.  
Curr Opin Rheumatol. 2003 May;15(3):280-7. Review.  
PMID: 12707582 [PubMed - indexed for MEDLINE]

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**Jun dimerization protein 2 (JDP2), a member of the AP-1 family of transcription factor, mediates osteoclast differentiation induced by RANKL.**  
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 PMID: 12707301 [PubMed - indexed for MEDLINE]
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*Laryngoscope.* 2003 Mar;113(3):436-42.  
 PMID: 12616193 [PubMed - indexed for MEDLINE]
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 PMID: 12548591 [PubMed - indexed for MEDLINE]
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 PMID: 12095173 [PubMed - indexed for MEDLINE]
-  **14:** [Jiang Y, Mehta CK, Hsu TY, Alsulaimani FF.](#) [Related Articles, Links](#)  
**Bacteria induce osteoclastogenesis via an osteoblast-independent pathway.**  
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**Serum osteoprotegerin and renal osteodystrophy.**  
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 PMID: 11812872 [PubMed - indexed for MEDLINE]
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-  **17:** [Miyamoto N, Higuchi Y, Mori K, Ito M, Tsurudome M, Nishio M, Yamada H, Sudo A, Kato K, Uchida A, Ito Y.](#) [Related Articles, Links](#)  
**Human osteosarcoma-derived cell lines produce soluble factor(s) that induces differentiation of blood monocytes to osteoclast-like cells.**  
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PMID: 11789667 [PubMed - indexed for MEDLINE]


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-  **19:** [Dhore CR, Cleutjens JP, Lutgens E, Cleutjens KB, Geusens PP, Kitslaar PJ, Tordoir JH, Spronk HM, Vermeer C, Daemen MJ.](#) [Related Articles, Links](#)



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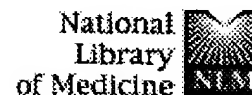
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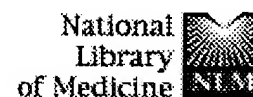
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PMID: 14697750 [PubMed - indexed for MEDLINE]☐ 2: [Wiethe C, Dittmar K, Doan T, Lindenmaier W, Tindler R.](#) [Related Articles, Links](#)**Enhanced effector and memory CTL responses generated by incorporation of receptor activator of NF-kappa B (RANK)/RANK ligand costimulatory molecules into dendritic cell immunogens expressing a human tumor-specific antigen.**J Immunol. 2003 Oct 15;171(8):4121-30.  
PMID: 14530334 [PubMed - indexed for MEDLINE]☐ 3: [Juji T, Hertz M, Aoki K, Horie D, Ohya K, Gautam A, Mouritsen S, Oda H, Nakamura K, Tanaka S.](#) [Related Articles, Links](#)**A novel therapeutic vaccine approach, targeting RANKL, prevents bone destruction in bone-related disorders.**J Bone Miner Metab. 2002;20(5):266-8. Review. No abstract available.  
PMID: 12203031 [PubMed - indexed for MEDLINE]☐ 4: [Feuerstein B, Berger TG, Maczek C, Roder C, Schreiner D, Hirsch U, Haendle I, Leisgang W, Glaser A, Kuss O, Diepgen TL, Schuler G, Schuler-Thurner B.](#) [Related Articles, Links](#)**A method for the production of cryopreserved aliquots of antigen-preloaded, mature dendritic cells ready for clinical use.**J Immunol Methods. 2000 Nov 1;245(1-2):15-29.  
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
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
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
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PMID: 11739153 [PubMed - indexed for MEDLINE]


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 **Osteoprotegerin ligand induces beta-casein gene expression through the transcription factor CCAAT/enhancer-binding protein beta.**

J Biol Chem. 2002 Feb 15;277(7):5339-44. Epub 2001 Nov 28.

PMID: 11726661 [PubMed - indexed for MEDLINE]

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 **[New paradigms in the regulation of bone metabolism]**

Rev Invest Clin. 2001 Jul-Aug;53(4):362-9. Spanish.

PMID: 11599485 [PubMed - indexed for MEDLINE]


-  **23:** [Lam J, Nelson CA, Ross FP, Teitelbaum SL, Fremont DH.](#) [Related Articles, Links](#)

 **Crystal structure of the TRANCE/RANKL cytokine reveals determinants of receptor-ligand specificity.**

J Clin Invest. 2001 Oct;108(7):971-9.

PMID: 11581298 [PubMed - indexed for MEDLINE]


-  **24:** [Kazama JJ, Maruyama H, Gejyo F.](#) [Related Articles, Links](#)

 **Osteoclastogenesis and osteoclast activation in dialysis-related amyloid osteopathy.**

Am J Kidney Dis. 2001 Oct;38(4 Suppl 1):S156-60. Review.


PMID: 11576944 [PubMed - indexed for MEDLINE]


-  **25:** [Ikeda T, Utsuyama M, Hirokawa K.](#) [Related Articles, Links](#)

 **Expression profiles of receptor activator of nuclear factor kappaB ligand, receptor activator of nuclear factor kappaB, and osteoprotegerin messenger RNA in aged and ovariectomized rat bones.**

J Bone Miner Res. 2001 Aug;16(8):1416-25.


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
















-  **26:** [Corisdeo S, Gyda M, Zaidi M, Moonga BS, Troen BR.](#) [Related Articles, Links](#)




















 **New insights into the regulation of cathepsin K gene expression by osteoprotegerin ligand.**

Biochem Biophys Res Commun. 2001 Jul 13;285(2):335-9.


PMID: 11444847 [PubMed - indexed for MEDLINE]

-  **27:** [Gyda M, Corisdeo S, Zaidi M, Troen BR.](#) [Related Articles, Links](#)

-  **Macrophage colony-stimulating factor suppresses osteoblast formation.**  
Biochem Biophys Res Commun. 2001 Jul 13;285(2):328-34.  
PMID: 11444846 [PubMed - indexed for MEDLINE]
-  **28:** [Kostenuik PJ, Shalhoub V.](#) [Related Articles, Links](#)
-  **Osteoprotegerin: a physiological and pharmacological inhibitor of bone resorption.**  
Curr Pharm Des. 2001 May;7(8):613-35. Review.  
PMID: 11375772 [PubMed - indexed for MEDLINE]
-  **29:** [Komine M, Kukita A, Kukita T, Ogata Y, Hotokebuchi T, Kohashi O.](#) [Related Articles, Links](#)
-  **Tumor necrosis factor-alpha cooperates with receptor activator of nuclear factor kappaB ligand in generation of osteoclasts in stromal cell-depleted rat bone marrow cell culture.**  
Bone. 2001 May;28(5):474-83.  
PMID: 11344046 [PubMed - indexed for MEDLINE]
-  **30:** [Perez M, Migliaccio S, Taranta A, Festuccia C, Orru L, Brama M, Bologna M, Faraggiana T, Baron R, Teti A.](#) [Related Articles, Links](#)
-  **Melanoma cells stimulate osteoclastogenesis, c-Src expression and osteoblast cytokines.**  
Eur J Cancer. 2001 Mar;37(5):629-40.  
PMID: 11290439 [PubMed - indexed for MEDLINE]
-  **31:** [Schlondorff J, Lum L, Blobel CP.](#) [Related Articles, Links](#)
-  **Biochemical and pharmacological criteria define two shedding activities for TRANCE/OPGL that are distinct from the tumor necrosis factor alpha convertase.**  
J Biol Chem. 2001 May 4;276(18):14665-74. Epub 2001 Jan 30.  
PMID: 11278735 [PubMed - indexed for MEDLINE]
-  **32:** [Suda T, Kobayashi K, Jimi E, Udagawa N, Takahashi N.](#) [Related Articles, Links](#)
-  **The molecular basis of osteoclast differentiation and activation.**  
Novartis Found Symp. 2001;232:235-47; discussion 247-50. Review.  
PMID: 11277084 [PubMed - indexed for MEDLINE]
-  **33:** [O'Brien EA, Williams JH, Marshall MJ.](#) [Related Articles, Links](#)
-  **Osteoprotegerin is produced when prostaglandin synthesis is inhibited causing osteoclasts to detach from the surface of mouse parietal bone and attach to the endocranial membrane.**  
Bone. 2001 Feb;28(2):208-14.  
PMID: 11182380 [PubMed - indexed for MEDLINE]
-  **34:** [Xing L, Venegas AM, Chen A, Garrett-Beal L, Boyce BF, Varmus HE, Schwartzberg PL.](#) [Related Articles, Links](#)
-  **Genetic evidence for a role for Src family kinases in TNF family receptor signaling and cell survival.**  
Genes Dev. 2001 Jan 15;15(2):241-53.  
PMID: 11157779 [PubMed - indexed for MEDLINE]
-  **35:** [Okahashi N, Murase Y, Koseki T, Sato T, Yamato K, Nishihara T.](#) [Related Articles, Links](#)
-  **Osteoclast differentiation is associated with transient upregulation of cyclin-dependent kinase inhibitors p21(WAF1/CIP1) and p27(KIP1).**  
J Cell Biochem. 2001;80(3):339-45.  
PMID: 11135363 [PubMed - indexed for MEDLINE]
-  **36:** [Srivastava S, Toraldo G, Weitzmann MN, Cenci S, Ross FP, Pacifici R.](#) [Related Articles, Links](#)

-  **Estrogen decreases osteoclast formation by down-regulating receptor activator of NF-kappa B ligand (RANKL)-induced JNK activation.**  
J Biol Chem. 2001 Mar 23;276(12):8836-40. Epub 2000 Dec 19.  
PMID: 11121427 [PubMed - indexed for MEDLINE]
-  **37:** [Shalhoub V, Elliott G, Chiu L, Manoukian R, Kelley M, Hawkins N, Davy E, Shimamoto G, Beck J, Kaufman SA, Van G, Scully S, Qi M, Grisanti M, Dunstan C, Boyle WJ, Lacey DL.](#) [Related Articles, Links](#)
-  **Characterization of osteoclast precursors in human blood.**  
Br J Haematol. 2000 Nov;111(2):501-12.  
PMID: 11122091 [PubMed - indexed for MEDLINE]
-  **38:** [Kong YY, Penninger JM.](#) [Related Articles, Links](#)
-  **Molecular control of bone remodeling and osteoporosis.**  
Exp Gerontol. 2000 Oct;35(8):947-56. Review.  
PMID: 11121682 [PubMed - indexed for MEDLINE]
-  **39:** [Fan X, Fan D, Gewant H, Royce CL, Nanes MS, Rubin J.](#) [Related Articles, Links](#)
-  **Increasing membrane-bound MCSF does not enhance OPGL-driven osteoclastogenesis from marrow cells.**  
Am J Physiol Endocrinol Metab. 2001 Jan;280(1):E103-11.  
PMID: 11120664 [PubMed - indexed for MEDLINE]
-  **40:** [Mancini L, Moradi-Bidhendi N, Brandi ML, Perretti M, MacIntyre L.](#) [Related Articles, Links](#)
-  **Modulation of the effects of osteoprotegerin (OPG) ligand in a human leukemic cell line by OPG and calcitonin.**  
Biochem Biophys Res Commun. 2000 Dec 20;279(2):391-7.  
PMID: 11118297 [PubMed - indexed for MEDLINE]
-  **41:** [Xu J, Tan JW, Huang L, Gao XH, Laird R, Liu D, Wysocki S, Zheng MH.](#) [Related Articles, Links](#)
-  **Cloning, sequencing, and functional characterization of the rat homologue of receptor activator of NF-kappaB ligand.**  
J Bone Miner Res. 2000 Nov;15(11):2178-86.  
PMID: 11092398 [PubMed - indexed for MEDLINE]
-  **42:** [Kinpara K, Mogi M, Kuzushima M, Togari A.](#) [Related Articles, Links](#)
-  **Osteoclast differentiation factor in human osteosarcoma cell line.**  
J Immunoassay. 2000 Nov;21(4):327-40.  
PMID: 11071251 [PubMed - indexed for MEDLINE]
-  **43:** [Fata JE, Kong YY, Li J, Sasaki T, Irie-Sasaki I, Moorehead RA, Elliott R, Scully S, Vouras EB, Lacey DL, Boyle WJ, Khokha R, Penninger JM.](#) [Related Articles, Links](#)
-  **The osteoclast differentiation factor osteoprotegerin-ligand is essential for mammary gland development.**  
Cell. 2000 Sep 29;103(1):41-50.  
PMID: 11051546 [PubMed - indexed for MEDLINE]
-  **44:** [Fox SW, Fuller K, Bayley KE, Lean JM, Chambers TJ.](#) [Related Articles, Links](#)
-  **TGF-beta 1 and IFN-gamma direct macrophage activation by TNF-alpha to osteoclastic or cytotoxic phenotype.**  
J Immunol. 2000 Nov 1;165(9):4957-63.  
PMID: 11046022 [PubMed - indexed for MEDLINE]
-  **45:** [Takeyama S, Yoshimura Y, Shirai Y, Deyama Y, Hasegawa T, Yawaka Y, Kikui T, Matsumoto A, Fukuda H.](#) [Related Articles, Links](#)
-  **Low calcium environment effects osteoprotegerin ligand/osteoclast differentiation factor.**

Biochem Biophys Res Commun. 2000 Sep 24;276(2):524-9.  
PMID: 11027507 [PubMed - indexed for MEDLINE]

-  **46:** [Min H, Morony S, Sarosi I, Dunstan CR, Capparelli C, Scully S, Van G, Kaufman S, Kostenuik PJ, Lacey DL, Boyle WJ, Simonet WS.](#) [Related Articles, Links](#)



**Osteoprotegerin reverses osteoporosis by inhibiting endosteal osteoclasts and prevents vascular calcification by blocking a process resembling osteoclastogenesis.**

J Exp Med. 2000 Aug 21;192(4):463-74.  
PMID: 10952716 [PubMed - indexed for MEDLINE]

-  **47:** [Itonaga I, Fujikawa Y, Sabokbar A, Murray DW, Athanasou NA.](#) [Related Articles, Links](#)



**Rheumatoid arthritis synovial macrophage-osteoclast differentiation is osteoprotegerin ligand-dependent.**


J Pathol. 2000 Sep;192(1):97-104.  
PMID: 10951406 [PubMed - indexed for MEDLINE]

-  **48:** [Chambers TJ.](#) [Related Articles, Links](#)



**Regulation of the differentiation and function of osteoclasts.**


J Pathol. 2000 Sep;192(1):4-13. Review.  
PMID: 10951393 [PubMed - indexed for MEDLINE]

-  **49:** [Lacey DL, Tan HL, Lu J, Kaufman S, Van G, Qiu W, Rattan A, Scully S, Fletcher F, Juan T, Kelley M, Burgess TL, Boyle WJ, Polverino AJ.](#) [Related Articles, Links](#)



**Osteoprotegerin ligand modulates murine osteoclast survival in vitro and in vivo.**

Am J Pathol. 2000 Aug;157(2):435-48.  
PMID: 10934148 [PubMed - indexed for MEDLINE]

-  **50:** [O'Brien EA, Williams JH, Marshall MJ.](#) [Related Articles, Links](#)



**Osteoprotegerin ligand regulates osteoclast adherence to the bone surface in mouse calvaria.**

Biochem Biophys Res Commun. 2000 Aug 2;274(2):281-90.  
PMID: 10913332 [PubMed - indexed for MEDLINE]

-  **51:** [Sakaguchi K, Morita I, Murota S.](#) [Related Articles, Links](#)



**Relationship between the ability to support differentiation of osteoclast-like cells and adipogenesis in murine stromal cells derived from bone marrow.**


Prostaglandins Leukot Essent Fatty Acids. 2000 May;62(5):319-27.  
PMID: 10883064 [PubMed - indexed for MEDLINE]

-  **52:** [Tsurukai T, Udagawa N, Matsuzaki K, Takahashi N, Suda T.](#) [Related Articles, Links](#)



**Roles of macrophage-colony stimulating factor and osteoclast differentiation factor in osteoclastogenesis.**


J Bone Miner Metab. 2000;18(4):177-84.  
PMID: 10874596 [PubMed - indexed for MEDLINE]

-  **53:** [Lean JM, Matsuo K, Fox SW, Fuller K, Gibson FM, Draycott G, Wani MR, Bayley KE, Wong BR, Choi Y, Wagner EF, Chambers TJ.](#) [Related Articles, Links](#)



**Osteoclast lineage commitment of bone marrow precursors through expression of membrane-bound TRANCE.**

Bone. 2000 Jul;27(1):29-40.  
PMID: 10865206 [PubMed - indexed for MEDLINE]

-  **54:** [Lubberts E, Joosten LA, Chabaud M, van Den Bersselaar L, Oppers B, Coenen-De Roo CJ, Richards CD, Miossec P, van Den Berg WB.](#) [Related Articles, Links](#)



**IL-4 gene therapy for collagen arthritis suppresses synovial IL-17 and osteoprotegerin ligand and prevents bone erosion.**

J Clin Invest. 2000 Jun;105(12):1697-710.

PMID: 10862785 [PubMed - indexed for MEDLINE]



**55:** [Mbalaviele G, Abu-Amer Y, Meng A, Jaiswal R, Beck S, Pittenger MF, Thiede MA, Marshak DR.](#) Related Articles, Links



**Activation of peroxisome proliferator-activated receptor-gamma pathway inhibits osteoclast differentiation.**

J Biol Chem. 2000 May 12;275(19):14388-93.

PMID: 10799521 [PubMed - indexed for MEDLINE]



**56:** [Atkins GJ, Haynes DR, Graves SE, Evdokiou A, Hay S, Bouralexis S, Findlay DM.](#) Related Articles, Links



**Expression of osteoclast differentiation signals by stromal elements of giant cell tumors.**

J Bone Miner Res. 2000 Apr;15(4):640-9.

PMID: 10780856 [PubMed - indexed for MEDLINE]



**57:** [Huang L, Xu J, Wood DJ, Zheng MH.](#)

Related Articles, Links



**Gene expression of osteoprotegerin ligand, osteoprotegerin, and receptor activator of NF-kappaB in giant cell tumor of bone: possible involvement in tumor cell-induced osteoclast-like cell formation.**

Am J Pathol. 2000 Mar;156(3):761-7.

PMID: 10702390 [PubMed - indexed for MEDLINE]



**58:** [Matsuo K, Owens JM, Tonko M, Elliott C, Chambers TJ, Wagner EE.](#) Related Articles, Links



**Fosl1 is a transcriptional target of c-Fos during osteoclast differentiation.**

Nat Genet. 2000 Feb;24(2):184-7.

PMID: 10655067 [PubMed - indexed for MEDLINE]



**59:** [Kobayashi K, Takahashi N, Jimi E, Udagawa N, Takami M, Kotake S, Nakagawa N, Kinoshita M, Yamaguchi K, Shima N, Yasuda H, Morinaga T, Higashio K, Martin TJ, Suda T.](#) Related Articles, Links



**Tumor necrosis factor alpha stimulates osteoclast differentiation by a mechanism independent of the ODF/RANKL-RANK interaction.**

J Exp Med. 2000 Jan 17;191(2):275-86.

PMID: 10637272 [PubMed - indexed for MEDLINE]



**60:** [Itonaga I, Sabokbar A, Murray DW, Athanasou NA.](#)

Related Articles, Links



**Effect of osteoprotegerin and osteoprotegerin ligand on osteoclast formation by arthroplasty membrane derived macrophages.**

Ann Rheum Dis. 2000 Jan;59(1):26-31.

PMID: 10627423 [PubMed - indexed for MEDLINE]



**61:** [Hu S, Tamada K, Ni J, Vincenz C, Chen L.](#)

Related Articles, Links



**Characterization of TNFRSF19, a novel member of the tumor necrosis factor receptor superfamily.**

Genomics. 1999 Nov 15;62(1):103-7.

PMID: 10585776 [PubMed - indexed for MEDLINE]












**62:** [Kong YY, Feige U, Sarosi I, Bolon B, Tafuri A, Morony S, Capparelli C, Li J, Elliott R, McCabe S, Wong T, Campagnuolo G, Moran E, Bogoch ER, Van G, Nguyen LT, Ohashi PS, Lacey DL, Fish E, Boyle WJ, Penninger JM.](#) Related Articles, Links



**Activated T cells regulate bone loss and joint destruction in adjuvant arthritis through osteoprotegerin ligand.**


Nature. 1999 Nov 18;402(6759):304-9.

PMID: 10580503 [PubMed - indexed for MEDLINE]

-  **63:** [Udagawa N, Takahashi N, Jimi E, Matsuzaki K, Tsurukai T, Itoh K, Nakagawa N, Yasuda H, Goto M, Tsuda E, Higashio K, Gillespie MT, Martin TJ, Suda T.](#) [Related Articles, Links](#)  
 Osteoblasts/stromal cells stimulate osteoclast activation through expression of osteoclast differentiation factor/RANKL but not macrophage colony-stimulating factor: receptor activator of NF-kappa B ligand.  
 Bone. 1999 Nov;25(5):517-23.  
 PMID: 10574571 [PubMed - indexed for MEDLINE]
-  **64:** [Greenfield EM, Bi Y, Miyauchi A.](#) [Related Articles, Links](#)  
 Regulation of osteoclast activity.  
 Life Sci. 1999;65(11):1087-102. Review.  
 PMID: 10503925 [PubMed - indexed for MEDLINE]
-  **65:** [Ito H, Akiyama H, Shigeno C, Iyama K, Matsuoka H, Nakamura T.](#) [Related Articles, Links](#)  
 Hedgehog signaling molecules in bone marrow cells at the initial stage of fracture repair.  
 Biochem Biophys Res Commun. 1999 Aug 27;262(2):443-51.  
 PMID: 10462495 [PubMed - indexed for MEDLINE]
-  **66:** [Suda T, Takahashi N, Udagawa N, Jimi E, Gillespie MT, Martin TJ.](#) [Related Articles, Links](#)  
 Modulation of osteoclast differentiation and function by the new members of the tumor necrosis factor receptor and ligand families.  
 Endocr Rev. 1999 Jun;20(3):345-57. Review.  
 PMID: 10368775 [PubMed - indexed for MEDLINE]
-  **67:** [Kong YY, Boyle WJ, Penninger JM.](#) [Related Articles, Links](#)  
 Osteoprotegerin ligand: a common link between osteoclastogenesis, lymph node formation and lymphocyte development.  
 Immunol Cell Biol. 1999 Apr;77(2):188-93. Review.  
 PMID: 10234557 [PubMed - indexed for MEDLINE]
-  **68:** [Burgess TL, Qian Y, Kaufman S, Ring BD, Van G, Capparelli C, Kelley M, Hsu H, Boyle WJ, Dunstan CR, Hu S, Lacey DL.](#) [Related Articles, Links](#)  
 The ligand for osteoprotegerin (OPGL) directly activates mature osteoclasts.  
 J Cell Biol. 1999 May 3;145(3):527-38.  
 PMID: 10225954 [PubMed - indexed for MEDLINE]
-  **69:** [Lomaga MA, Yeh WC, Sarosi I, Duncan GS, Furlonger C, Ho A, Morony S, Capparelli C, Van G, Kaufman S, van der Heiden A, Itie A, Wakeham A, Khoo W, Sasaki T, Cao Z, Penninger JM, Paige CJ, Lacey DL, Dunstan CR, Boyle WJ, Goeddel DV, Mak TW.](#) [Related Articles, Links](#)  
 TRAF6 deficiency results in osteopetrosis and defective interleukin-1, CD40, and LPS signaling.  
 Genes Dev. 1999 Apr 15;13(8):1015-24.  
 PMID: 10215628 [PubMed - indexed for MEDLINE]
-  **70:** [Kitazawa R, Kitazawa S, Maeda S.](#) [Related Articles, Links](#)  
 Promoter structure of mouse RANKL/TRANSC/OPGL/ODF gene.  
 Biochim Biophys Acta. 1999 Apr 14;1445(1):134-41.  
 PMID: 10209265 [PubMed - indexed for MEDLINE]
-  **71:** [Akiyama H, Shigeno C, Iyama K, Ito H, Hiraki Y, Konishi J, Nakamura T.](#) [Related Articles, Links](#)  
 Indian hedgehog in the late-phase differentiation in mouse chondrogenic EC cells, ATDC5: upregulation of type X collagen and osteoprotegerin

ligand mRNAs.

Biochem Biophys Res Commun. 1999 Apr 21;257(3):814-20.  
PMID: 10208865 [PubMed - indexed for MEDLINE]

-  **72:** [Hsu H, Lacey DL, Dunstan CR, Solovyev I, Colombero A, Timms E, Tan HL, Elliott G, Kelley MJ, Sarosi I, Wang L, Xia XZ, Elliott R, Chiu L, Black T, Scully S, Capparelli C, Morony S, Shimamoto G, Bass MB, Boyle WJ.](#) [Related Articles, Links](#)



**Tumor necrosis factor receptor family member RANK mediates osteoclast differentiation and activation induced by osteoprotegerin ligand.**


Proc Natl Acad Sci U S A. 1999 Mar 30;96(7):3540-5.  
PMID: 10097072 [PubMed - indexed for MEDLINE]

-  **73:** [Takahashi N, Udagawa N, Suda T.](#) [Related Articles, Links](#)



**A new member of tumor necrosis factor ligand family, ODF/OPGL/TRANCE/RANKL, regulates osteoclast differentiation and function.**


Biochem Biophys Res Commun. 1999 Mar 24;256(3):449-55. Review.  
PMID: 10080918 [PubMed - indexed for MEDLINE]

-  **74:** [Faust J, Lacey DL, Hunt P, Burgess TL, Scully S, Van G, Eli A, Qian Y, Shalhoub V.](#) [Related Articles, Links](#)



**Osteoclast markers accumulate on cells developing from human peripheral blood mononuclear precursors.**


J Cell Biochem. 1999 Jan 1;72(1):67-80.  
PMID: 10025668 [PubMed - indexed for MEDLINE]

-  **75:** [Shalhoub V, Faust J, Boyle WJ, Dunstan CR, Kelley M, Kaufman S, Scully S, Van G, Lacey DL.](#) [Related Articles, Links](#)



**Osteoprotegerin and osteoprotegerin ligand effects on osteoclast formation from human peripheral blood mononuclear cell precursors.**


J Cell Biochem. 1999 Feb 1;72(2):251-61.  
PMID: 10022507 [PubMed - indexed for MEDLINE]

-  **76:** [Kong YY, Yoshida H, Sarosi I, Tan HL, Timms E, Capparelli C, Morony S, Oliveira-dos-Santos AJ, Van G, Itie A, Khoo W, Wakeham A, Dunstan CR, Lacey DL, Mak TW, Boyle WJ, Penninger JM.](#) [Related Articles, Links](#)



**OPGL is a key regulator of osteoclastogenesis, lymphocyte development and lymph-node organogenesis.**


Nature. 1999 Jan 28;397(6717):315-23.  
PMID: 9950424 [PubMed - indexed for MEDLINE]

-  **77:** [Gao YH, Shinki T, Yuasa T, Kataoka-Enomoto H, Komori T, Suda T, Yamaguchi A.](#) [Related Articles, Links](#)



**Potential role of cbfa1, an essential transcriptional factor for osteoblast differentiation, in osteoclastogenesis: regulation of mRNA expression of osteoclast differentiation factor (ODF).**


Biochem Biophys Res Commun. 1998 Nov 27;252(3):697-702.  
PMID: 9837769 [PubMed - indexed for MEDLINE]

-  **78:** [Vidal ON, Sjogren K, Eriksson BI, Ljunggren O, Ohlsson C.](#) [Related Articles, Links](#)



**Osteoprotegerin mRNA is increased by interleukin-1 alpha in the human osteosarcoma cell line MG-63 and in human osteoblast-like cells.**

Biochem Biophys Res Commun. 1998 Jul 30;248(3):696-700.  
PMID: 9703989 [PubMed - indexed for MEDLINE]

-  **79:** [Lacey DL, Timms E, Tan HL, Kelley MJ, Dunstan CR, Burgess T, Elliott R, Colombero A, Elliott G, Scully S, Hsu H, Sullivan J, Hawkins N, Davy E, Capparelli C, Eli A, Qian YX, Kaufman S, Sarosi I, Shalhoub V, Senaldi G, Guo J, Delaney J, Boyle WJ.](#) [Related Articles, Links](#)



Osteoprotegerin ligand is a cytokine that regulates osteoclast differentiation and activation.

Cell. 1998 Apr 17;93(2):165-76.

PMID: 9568710 [PubMed - indexed for MEDLINE]

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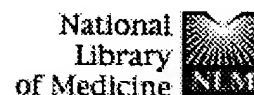
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☐ 1: [Han W, Zhang Y, Yan Z, Shi J.](#)

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Construction of a new tumour necrosis factor fusion-protein expression vector for high-level expression of heterologous genes in Escherichia coli. Biotechnol Appl Biochem. 2003 Apr;37(Pt 2):109-13. PMID: 12630898 [PubMed - indexed for MEDLINE]

☐ 2: [Ferrer Canabate J, Tovar I, Martinez P.](#)

[Related Articles, Links](#)

[Osteoprotegrin and RANKL/RANK system: is it the future of bone metabolism?] An Med Interna. 2002 Aug;19(8):385-88. Review. Spanish. No abstract available. PMID: 12244784 [PubMed - indexed for MEDLINE]

☐ 3: [Spurney RE, Flannery PJ, Garner SC, Athirakul K, Liu S, Guilak F, Quarles LD.](#)

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Anabolic effects of a G protein-coupled receptor kinase inhibitor expressed in osteoblasts. J Clin Invest. 2002 May;109(10):1361-71. PMID: 12021252 [PubMed - indexed for MEDLINE]

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Select HIV protease inhibitors alter bone and fat metabolism ex vivo. J Biol Chem. 2002 May 31;277(22):19247-50. Epub 2002 Apr 05. PMID: 11937496 [PubMed - indexed for MEDLINE]

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Extraintestinal manifestations of inflammatory bowel disease. Curr Gastroenterol Rep. 2001 Dec;3(6):477-83. Review. PMID: 11696285 [PubMed - indexed for MEDLINE]

☐ 6: [Wan M, Shi X, Feng X, Cao X.](#)

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Transcriptional mechanisms of bone morphogenetic protein-induced osteoprotegrin gene expression. J Biol Chem. 2001 Mar 30;276(13):10119-25. Epub 2001 Jan 03. PMID: 11139569 [PubMed - indexed for MEDLINE]

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Protein expression and functional difference of membrane-bound and soluble receptor activator of NF-kappaB ligand: modulation of the expression by osteotropic factors and cytokines. Biochem Biophys Res Commun. 2000 Sep 7;275(3):768-75. PMID: 10973797 [PubMed - indexed for MEDLINE]

☐ 8: [Sheikh MS, Fornace AJ Jr.](#)

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Death and decoy receptors and p53-mediated apoptosis. Leukemia. 2000 Aug;14(8):1509-13. Review. PMID: 10942251 [PubMed - indexed for MEDLINE]

☐ 9: [Kanematsu M, Sato T, Takai H, Watanabe K, Ikeda K, Yamada Y](#) [Related Articles, Links](#)

 **Prostaglandin E2 induces expression of receptor activator of nuclear factor-kappa B ligand/osteoprotegrin ligand on pre-B cells: implications for accelerated osteoclastogenesis in estrogen deficiency.**

J Bone Miner Res. 2000 Jul;15(7):1321-9.

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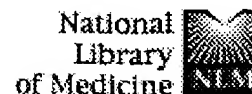
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☐ Cutting edge: a potent adjuvant effect of ligand to receptor activator of NF-kappa B gene for inducing antigen-specific CD8+ T cell response by DNA and viral vector vaccination.  
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- ☐ 2: [Wiethe C, Dittmar K, Doan T, Lindenmaier W, Tindle R](#) [Related Articles, Links](#)

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- ☐ 3: [Yu Q, Gu JX, Kovacs C, Freedman J, Thomas EK, Ostrowski MA](#) [Related Articles, Links](#)

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J Immunol. 2003 Feb 15;170(4):1797-805.  
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- ☐ 4: [Darnay BG, Haridas V, Ni J, Moore PA, Aggarwal BB](#) [Related Articles, Links](#)

☐ Characterization of the intracellular domain of receptor activator of NF-kappaB (RANK). Interaction with tumor necrosis factor receptor-associated factors and activation of NF-kappaB and c-Jun N-terminal kinase.  
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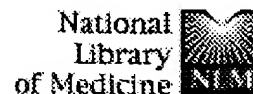
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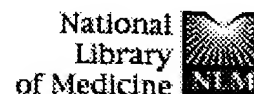
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Expression of osteoclast differentiation factor and osteoclastogenesis inhibitory factor in rat osteoporosis induced by immunosuppressant FK506. Bone. 2004 Mar;34(3):425-31. PMID: 15003790 [PubMed - in process]

- ☐ 2: [Kodama I, Niida S, Sanada M, Yoshiko Y, Tsuda M, Maeda N, Ohama K.](#) [Related Articles, Links](#)

Estrogen regulates the production of VEGF for osteoclast formation and activity in op/op mice. J Bone Miner Res. 2004 Feb;19(2):200-6. PMID: 14969389 [PubMed - in process]

- ☐ 3: [Kumamoto H, Ooya K.](#) [Related Articles, Links](#)

Expression of parathyroid hormone-related protein (PTHrP), osteoclast differentiation factor (ODF)/receptor activator of nuclear factor-kappaB ligand (RANKL) and osteoclastogenesis inhibitory factor (OCIF)/osteoprotegerin (OPG) in ameloblastomas. J Oral Pathol Med. 2004 Jan;33(1):46-52. PMID: 14675140 [PubMed - indexed for MEDLINE]

- ☐ 4: [Udagawa N.](#) [Related Articles, Links](#)

The mechanism of osteoclast differentiation from macrophages: possible roles of T lymphocytes in osteoclastogenesis. J Bone Miner Metab. 2003;21(6):337-43. PMID: 14586789 [PubMed - in process]

- ☐ 5: [Cheng X, Kinoshita M, Murali R, Greene MI.](#) [Related Articles, Links](#)

The TNF receptor superfamily: role in immune inflammation and bone formation. Immunol Res. 2003;27(2-3):287-94. Review. PMID: 12857975 [PubMed - indexed for MEDLINE]




















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Biology of the TRANCE axis. Cytokine Growth Factor Rev. 2003 Jun-Aug;14(3-4):251-63. Review. PMID: 12787563 [PubMed - indexed for MEDLINE]

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RANKL and RANK as novel therapeutic targets for arthritis. Curr Opin Rheumatol. 2003 May;15(3):280-7. Review. PMID: 12707582 [PubMed - indexed for MEDLINE]


- ☐ 8: [Kawada R, Ohtsuka T, Okutsu J, Takahashi T, Kadono Y, Oda H, Hikita A, Nakamura K, Tanaka S, Furukawa H.](#) [Related Articles, Links](#)

-  **Jun dimerization protein 2 (JDP2), a member of the AP-1 family of transcription factor, mediates osteoclast differentiation induced by RANKL.**  
J Exp Med. 2003 Apr 21;197(8):1029-35.  
PMID: 12707301 [PubMed - indexed for MEDLINE]
-  **9:** [Koshihara Y, Hoshi K, Okawara R, Ishibashi H, Yamamoto S.](#) [Related Articles, Links](#)
-  **Vitamin K stimulates osteoblastogenesis and inhibits osteoclastogenesis in human bone marrow cell culture.**  
J Endocrinol. 2003 Mar;176(3):339-48.  
PMID: 12630919 [PubMed - indexed for MEDLINE]
-  **10:** [Bayoumy M, Sankar U, Muthusamy N.](#) [Related Articles, Links](#)
-  **Role of macrophage-colony stimulating factor and osteoclast differentiation factor in osteoclastogenesis of bone marrow derived stem cells.**  
Indian J Exp Biol. 2002 Sep;40(9):995-1000.  
PMID: 12587726 [PubMed - indexed for MEDLINE]
-  **11:** [Sordillo EM, Pearse RN.](#) [Related Articles, Links](#)
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Infect Immun. 2003 Jan;71(1):226-33.  
PMID: 12496170 [PubMed - indexed for MEDLINE]
-  **13:** [Mizuno A, Kanno T, Hoshi M, Shibata O, Yano K, Fujise N, Kinoshita M, Yamaguchi K, Tsuda E, Murakami A, Yasuda H, Higashio K.](#) [Related Articles, Links](#)
-  **Transgenic mice overexpressing soluble osteoclast differentiation factor (sODF) exhibit severe osteoporosis.**  
J Bone Miner Metab. 2002;20(6):337-44.  
PMID: 12434161 [PubMed - indexed for MEDLINE]
-  **14:** [Hu Y, Yu S.](#) [Related Articles, Links](#)
-  **Gene expression of osteoprotegerin and osteoclast differentiation factor in giant cell tumor.**  
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-  **15:** [Deyama Y, Kikui T, Ohnishi G, Feng YG, Takeyama S, Hatta M, Yoshimura Y, Suzuki K.](#) [Related Articles, Links](#)
-  **Histamine stimulates production of osteoclast differentiation factor/receptor activator of nuclear factor-kappaB ligand by osteoblasts.**  
Biochem Biophys Res Commun. 2002 Oct 25;298(2):240-6.  
PMID: 12387822 [PubMed - indexed for MEDLINE]
-  **16:** [Jones DH, Kong YY, Penninger JM.](#) [Related Articles, Links](#)
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PMID: 12379618 [PubMed - indexed for MEDLINE]
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Pathologe. 2002 Sep;23(5):332-9. Epub 2002 Aug 28. Review. German.  
PMID: 12376858 [PubMed - indexed for MEDLINE]


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
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 PMID: 12113552 [PubMed - indexed for MEDLINE]


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-  **Mechanisms involved in bone resorption.**  
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 **21:** [Suda T.](#)


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 PMID: 11985054 [PubMed - indexed for MEDLINE]


 **22:** [Kazama JJ, Shigematsu T, Yano K, Tsuda E, Miura M, Iwasaki Y, Kawaguchi Y, Gejyo F, Kurokawa K, Fukagawa M.](#)


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 PMID: 11877571 [PubMed - indexed for MEDLINE]


 **23:** [Theill LE, Boyle WJ, Penninger JM.](#)


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 PMID: 11861618 [PubMed - indexed for MEDLINE]


 **24:** [Wise GE, Yao S, Zhang Q, Ren Y.](#)


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 PMID: 11839361 [PubMed - indexed for MEDLINE]


 **25:** [Odgren PR, Kim N, van Wesenbeeck L, MacKay C, Mason-Savas A, Safadi FF, Popoff SN, Lengner C, van-Hul W, Choi Y, Marks SC Jr.](#)

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*Int J Dev Biol.* 2001 Dec;45(8):853-9.  
 PMID: 11804028 [PubMed - indexed for MEDLINE]

 **26:** [Miyamoto N, Higuchi Y, Mori K, Ito M, Tsurudome M, Nishio M, Yamada H, Sudo A, Kato K, Uchida A, Ito Y.](#)




















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*Int Immunopharmacol.* 2002 Jan;2(1):25-38.  
 PMID: 11789667 [PubMed - indexed for MEDLINE]

 **27:** [Ito S, Wakabayashi K, Ubukata O, Hayashi S, Okada F, Hata T.](#)


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**Crystal structure of the extracellular domain of mouse RANK ligand at 2.2-**

-  **A resolution.**  
J Biol Chem. 2002 Feb 22;277(8):6631-6. Epub 2001 Nov 30.  
PMID: 11733492 [PubMed - indexed for MEDLINE]
-  **28:** [Kawamoto S, Ejiri S, Hoshi K, Nagaoka E, Ozawa H.](#) [Related Articles, Links](#)
-  **Immunolocalization of osteoclast differentiation factor in rat periodontium.**  
Arch Oral Biol. 2002 Jan;47(1):55-8.  
PMID: 11743932 [PubMed - indexed for MEDLINE]
-  **29:** [Khosla S.](#) [Related Articles, Links](#)
-  **Minireview: the OPG/RANKL/RANK system.**  
Endocrinology. 2001 Dec;142(12):5050-5. Review.  
PMID: 11713196 [PubMed - indexed for MEDLINE]
-  **30:** [Chikazu D, Katagiri M, Ogasawara T, Ogata N, Shimoaka T, Takato T, Nakamura K, Kawaguchi H.](#) [Related Articles, Links](#)
-  **Regulation of osteoclast differentiation by fibroblast growth factor 2: stimulation of receptor activator of nuclear factor kappaB ligand/osteoclast differentiation factor expression in osteoblasts and inhibition of macrophage colony-stimulating factor function in osteoclast precursors.**  
J Bone Miner Res. 2001 Nov;16(11):2074-81.  
PMID: 11697804 [PubMed - indexed for MEDLINE]
-  **31:** [Kondo Y, Irie K, Ikegame M, Ejiri S, Hanada K, Ozawa H.](#) [Related Articles, Links](#)
-  **Role of stromal cells in osteoclast differentiation in bone marrow.**  
J Bone Miner Metab. 2001;19(6):352-8.  
PMID: 11685650 [PubMed - indexed for MEDLINE]
-  **32:** [Pfaff M, Jurdic P.](#) [Related Articles, Links](#)
-  **Podosomes in osteoclast-like cells: structural analysis and cooperative roles of paxillin, proline-rich tyrosine kinase 2 (Pyk2) and integrin alphaVbeta3.**  
J Cell Sci. 2001 Aug;114(Pt 15):2775-86.  
PMID: 11683411 [PubMed - indexed for MEDLINE]
-  **33:** [Manabe N, Kawaguchi H, Chikuda H, Miyaura C, Inada M, Nagai R, Nabeshima Y, Nakamura K, Sinclair AM, Scheuermann RH, Kuro-o M.](#) [Related Articles, Links](#)
-  **Connection between B lymphocyte and osteoclast differentiation pathways.**  
J Immunol. 2001 Sep 1;167(5):2625-31.  
PMID: 11509604 [PubMed - indexed for MEDLINE]
-  **34:** [Wulling M, Engels C, Jesse N, Werner M, Delling G, Kaiser E.](#) [Related Articles, Links](#)
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J Cancer Res Clin Oncol. 2001 Aug;127(8):467-74. Review.  
PMID: 11501745 [PubMed - indexed for MEDLINE]
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-  **Expression profiles of receptor activator of nuclear factor kappaB ligand, receptor activator of nuclear factor kappaB, and osteoprotegerin messenger RNA in aged and ovariectomized rat bones.**  
J Bone Miner Res. 2001 Aug;16(8):1416-25.  
PMID: 11499864 [PubMed - indexed for MEDLINE]
-  **36:** [Komine M, Kukita A, Kukita T, Ogata Y, Hotokebuchi T, Kohashi O.](#) [Related Articles, Links](#)
-  **Tumor necrosis factor-alpha cooperates with receptor activator of nuclear factor kappaB ligand in generation of osteoclasts in stromal cell-depleted rat bone marrow cell culture.**  
Bone. 2001 May;28(5):474-83.



PMID: 11344046 [PubMed - indexed for MEDLINE]


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**The molecular basis of osteoclast differentiation and activation.**

Novartis Found Symp. 2001;232:235-47; discussion 247-50. Review.

PMID: 11277084 [PubMed - indexed for MEDLINE]


-  **38:** [Meiyanto E, Hoshijima M, Ogawa T, Ishida N, Takeya T.](#) [Related Articles, Links](#)



**Osteoclast differentiation factor modulates cell cycle machinery and causes a delay in s phase progression in RAW264 cells.**

Biochem Biophys Res Commun. 2001 Mar 23;282(1):278-83.

PMID: 11264004 [PubMed - indexed for MEDLINE]


-  **39:** [Kobayashi N, Kadono Y, Naito A, Matsumoto K, Yamamoto T, Tanaka S, Inoue J.](#) [Related Articles, Links](#)



**Segregation of TRAF6-mediated signaling pathways clarifies its role in osteoclastogenesis.**

EMBO J. 2001 Mar 15;20(6):1271-80.

PMID: 11250893 [PubMed - indexed for MEDLINE]

-  **40:** [Takeuchi T, Tsuboi T, Arai M, Togari A.](#) [Related Articles, Links](#)



**Adrenergic stimulation of osteoclastogenesis mediated by expression of osteoclast differentiation factor in MC3T3-E1 osteoblast-like cells.**

Biochem Pharmacol. 2001 Mar 1;61(5):579-86.

PMID: 11239501 [PubMed - indexed for MEDLINE]


-  **41:** [Burger D.](#) [Related Articles, Links](#)



**Cell contact interactions in rheumatology, The Kennedy Institute for Rheumatology, London, UK, 1-2 June 2000.**

Arthritis Res. 2000;2(6):472-6.

PMID: 11219394 [PubMed - indexed for MEDLINE]


-  **42:** [Wise GE, Lumpkin SJ, Huang H, Zhang Q.](#) [Related Articles, Links](#)



**Osteoprotegerin and osteoclast differentiation factor in tooth eruption.**

J Dent Res. 2000 Dec;79(12):1937-42.

PMID: 11201042 [PubMed - indexed for MEDLINE]


-  **43:** [Kikuchi T, Matsuguchi T, Tsuboi N, Mitani A, Tanaka S, Matsuoka M, Yamamoto G, Hishikawa T, Noguchi T, Yoshikai Y.](#) [Related Articles, Links](#)



**Gene expression of osteoclast differentiation factor is induced by lipopolysaccharide in mouse osteoblasts via Toll-like receptors.**

J Immunol. 2001 Mar 1;166(5):3574-9.

PMID: 11207318 [PubMed - indexed for MEDLINE]

-  **44:** [Makiishi-Shimobayashi C, Tsujimura T, Iwasaki T, Yamada N, Sugihara A, Okamura H, Hayashi S, Terada N.](#) [Related Articles, Links](#)



**Interleukin-18 up-regulates osteoprotegerin expression in stromal/osteoblastic cells.**

Biochem Biophys Res Commun. 2001 Feb 23;281(2):361-6.

PMID: 11181055 [PubMed - indexed for MEDLINE]


-  **45:** [Gravallese EM, Galson DL, Goldring SR, Auron PE.](#) [Related Articles, Links](#)






















**The role of TNF-receptor family members and other TRAF-dependent receptors in bone resorption.**











Arthritis Res. 2001;3(1):6-12. Epub 2000 Nov 02. Review.



















PMID: 11178122 [PubMed - indexed for MEDLINE]

-  **46:** [Okahashi N, Murase Y, Koseki T, Sato T, Yamato K, Nishihara T.](#) [Related Articles, Links](#)

**Osteoclast differentiation is associated with transient upregulation of**

-  cyclin-dependent kinase inhibitors p21(WAF1/CIP1) and p27(KIP1).  
J Cell Biochem. 2001;80(3):339-45.  
PMID: 11135363 [PubMed - indexed for MEDLINE]
-  **47:** [Srivastava S, Toraldo G, Weitzmann MN, Cenci S, Ross FP, Pacifici R.](#) [Related Articles, Links](#)
-  Estrogen decreases osteoclast formation by down-regulating receptor activator of NF-kappa B ligand (RANKL)-induced JNK activation.  
J Biol Chem. 2001 Mar 23;276(12):8836-40. Epub 2000 Dec 19.  
PMID: 11121427 [PubMed - indexed for MEDLINE]
-  **48:** [Shalhoub V, Elliott G, Chiu L, Manoukian R, Kelley M, Hawkins N, Davy E, Shimamoto G, Beck J, Kaufman SA, Van G, Scully S, Qi M, Grisanti M, Dunstan C, Boyle WJ, Lacey DL.](#) [Related Articles, Links](#)
-  Characterization of osteoclast precursors in human blood.  
Br J Haematol. 2000 Nov;111(2):501-12.  
PMID: 11122091 [PubMed - indexed for MEDLINE]
-  **49:** [Takeuchi Y, Suzawa M, Fukumoto S, Fujita T.](#) [Related Articles, Links](#)
-  Vitamin K(2) inhibits adipogenesis, osteoclastogenesis, and ODF/RANK ligand expression in murine bone marrow cell cultures.  
Bone. 2000 Dec;27(6):769-76.  
PMID: 11113387 [PubMed - indexed for MEDLINE]
-  **50:** [Xu J, Tan JW, Huang L, Gao XH, Laird R, Liu D, Wysocki S, Zheng MH.](#) [Related Articles, Links](#)
-  Cloning, sequencing, and functional characterization of the rat homologue of receptor activator of NF-kappaB ligand.  
J Bone Miner Res. 2000 Nov;15(11):2178-86.  
PMID: 11092398 [PubMed - indexed for MEDLINE]
-  **51:** [Sakuma Y, Tanaka K, Suda M, Komatsu Y, Yasoda A, Miura M, Ozasa A, Narumiya S, Sugimoto Y, Ichikawa A, Ushikubi F, Nakao K.](#) [Related Articles, Links](#)
-  Impaired bone resorption by lipopolysaccharide in vivo in mice deficient in the prostaglandin E receptor EP4 subtype.  
Infect Immun. 2000 Dec;68(12):6819-25.  
PMID: 11083800 [PubMed - indexed for MEDLINE]
-  **52:** [Shigeyama Y, Pap T, Kunzler P, Simmen BR, Gay RE, Gay S.](#) [Related Articles, Links](#)
-  Expression of osteoclast differentiation factor in rheumatoid arthritis.  
Arthritis Rheum. 2000 Nov;43(11):2523-30.  
PMID: 11083276 [PubMed - indexed for MEDLINE]
-  **53:** [Kinpara K, Mogi M, Kuzushima M, Togari A.](#) [Related Articles, Links](#)
-  Osteoclast differentiation factor in human osteosarcoma cell line.  
J Immunoassay. 2000 Nov;21(4):327-40.  
PMID: 11071251 [PubMed - indexed for MEDLINE]
-  **54:** [Fox SW, Fuller K, Bayley KE, Lean JM, Chambers TJ.](#) [Related Articles, Links](#)
-  TGF-beta 1 and IFN-gamma direct macrophage activation by TNF-alpha to osteoclastic or cytotoxic phenotype.  
J Immunol. 2000 Nov 1;165(9):4957-63.  
PMID: 11046022 [PubMed - indexed for MEDLINE]
-  **55:** [Kawaguchi N, Noda M.](#) [Related Articles, Links](#)
-  Mitf is expressed in osteoclast progenitors in vitro.  
Exp Cell Res. 2000 Nov 1;260(2):284-91.  
PMID: 11035923 [PubMed - indexed for MEDLINE]

-  **56:** [Tanaka Y, Maruo A, Fujii K, Nomi M, Nakamura T, Eto S, Minami Y](#) Related Articles, Links  
**Intercellular adhesion molecule 1 discriminates functionally different populations of human osteoblasts: characteristic involvement of cell cycle regulators.**  
 J Bone Miner Res. 2000 Oct;15(10):1912-23.  
 PMID: 11028443 [PubMed - indexed for MEDLINE]
-  **57:** [Takeyama S, Yoshimura Y, Shirai Y, Deyama Y, Hasegawa T, Yawaka Y, Kikuri T, Matsumoto A, Fukuda H](#) Related Articles, Links  
**Low calcium environment effects osteoprotegerin ligand/osteoclast differentiation factor.**  
 Biochem Biophys Res Commun. 2000 Sep 24;276(2):524-9.  
 PMID: 11027507 [PubMed - indexed for MEDLINE]
-  **58:** [Itoh K, Udagawa N, Matsuzaki K, Takami M, Amano H, Shinki T, Ueno Y, Takahashi N, Suda T](#) Related Articles, Links  
**Importance of membrane- or matrix-associated forms of M-CSF and RANKL/ODF in osteoclastogenesis supported by SaOS-4/3 cells expressing recombinant PTH/PTHrP receptors.**  
 J Bone Miner Res. 2000 Sep;15(9):1766-75.  
 PMID: 10976996 [PubMed - indexed for MEDLINE]
-  **59:** [Yasuda H](#) Related Articles, Links  
**[A new paradigm of osteoclast biology: discovery of OCIF and ODF]**  
 Seikagaku. 2000 Jul;72(7):507-25. Review. Japanese. No abstract available.  
 PMID: 10967683 [PubMed - indexed for MEDLINE]
-  **60:** [Chambers TJ](#) Related Articles, Links  
**Regulation of the differentiation and function of osteoclasts.**  
 J Pathol. 2000 Sep;192(1):4-13. Review.  
 PMID: 10951393 [PubMed - indexed for MEDLINE]
-  **61:** [Otsuka E, Kato Y, Hirose S, Hagiwara H](#) Related Articles, Links  
**Role of ascorbic acid in the osteoclast formation: induction of osteoclast differentiation factor with formation of the extracellular collagen matrix.**  
 Endocrinology. 2000 Aug;141(8):3006-11.  
 PMID: 10919289 [PubMed - indexed for MEDLINE]
-  **62:** [Deyama Y, Takeyama S, Koshikawa M, Shirai Y, Yoshimura Y, Nishikata M, Suzuki K, Matsumoto A](#) Related Articles, Links  
**Osteoblast maturation suppressed osteoclastogenesis in coculture with bone marrow cells.**  
 Biochem Biophys Res Commun. 2000 Jul 21;274(1):249-54.  
 PMID: 10903926 [PubMed - indexed for MEDLINE]
-  **63:** [Sakaguchi K, Morita I, Murota S](#) Related Articles, Links  
**Relationship between the ability to support differentiation of osteoclast-like cells and adipogenesis in murine stromal cells derived from bone marrow.**  
 Prostaglandins Leukot Essent Fatty Acids. 2000 May;62(5):319-27.  
 PMID: 10883064 [PubMed - indexed for MEDLINE]
-  **64:** [Marie P, Debais F, Cohen-Solal M, de Vernejoul MC](#) Related Articles, Links  
**New factors controlling bone remodeling.**  
 Joint Bone Spine. 2000;67(3):150-6. Review.  
 PMID: 10875310 [PubMed - indexed for MEDLINE]
-  **65:** [Tsurukai T, Udagawa N, Matsuzaki K, Takahashi N, Suda T](#) Related Articles, Links

-  **Roles of macrophage-colony stimulating factor and osteoclast differentiation factor in osteoclastogenesis.**  
J Bone Miner Metab. 2000;18(4):177-84.  
PMID: 10874596 [PubMed - indexed for MEDLINE]
-  **66:** [Lean JM, Matsuo K, Fox SW, Fuller K, Gibson FM, Draycott G, Wani MR, Bayley KE, Wong BR, Choi Y, Wagner EF, Chambers TJ.](#) [Related Articles, Links](#)
-  **Osteoclast lineage commitment of bone marrow precursors through expression of membrane-bound TRANCE.**  
Bone. 2000 Jul;27(1):29-40.  
PMID: 10865206 [PubMed - indexed for MEDLINE]
-  **67:** [Rani CS, MacDougall M.](#) [Related Articles, Links](#)
-  **Dental cells express factors that regulate bone resorption.**  
Mol Cell Biol Res Commun. 2000 Mar;3(3):145-52.  
PMID: 10860862 [PubMed - indexed for MEDLINE]
-  **68:** [Rubin J, Murphy T, Nanes MS, Fan X.](#) [Related Articles, Links](#)
-  **Mechanical strain inhibits expression of osteoclast differentiation factor by murine stromal cells.**  
Am J Physiol Cell Physiol. 2000 Jun;278(6):C1126-32.  
PMID: 10837340 [PubMed - indexed for MEDLINE]
-  **69:** [Atkins GJ, Haynes DR, Geary SM, Loric M, Crotti TN, Findlay DM.](#) [Related Articles, Links](#)
-  **Coordinated cytokine expression by stromal and hematopoietic cells during human osteoclast formation.**  
Bone. 2000 Jun;26(6):653-61.  
PMID: 10831938 [PubMed - indexed for MEDLINE]
-  **70:** [Atkins GJ, Haynes DR, Graves SE, Evdokiou A, Hay S, Bouralexis S, Findlay DM.](#) [Related Articles, Links](#)
-  **Expression of osteoclast differentiation signals by stromal elements of giant cell tumors.**  
J Bone Miner Res. 2000 Apr;15(4):640-9.  
PMID: 10780856 [PubMed - indexed for MEDLINE]
-  **71:** [Ogata N, Chikazu D, Kubota N, Terauchi Y, Tobe K, Azuma Y, Ohta T, Kadowaki T, Nakamura K, Kawaguchi H.](#) [Related Articles, Links](#)
-  **Insulin receptor substrate-1 in osteoblast is indispensable for maintaining bone turnover.**  
J Clin Invest. 2000 Apr;105(7):935-43.  
PMID: 10749573 [PubMed - indexed for MEDLINE]
-  **72:** [Suzawa T, Miyaura C, Inada M, Maruyama T, Sugimoto Y, Ushikubi F, Ichikawa A, Narumiya S, Suda T.](#) [Related Articles, Links](#)
-  **The role of prostaglandin E receptor subtypes (EP1, EP2, EP3, and EP4) in bone resorption: an analysis using specific agonists for the respective EPs.**  
Endocrinology. 2000 Apr;141(4):1554-9.  
PMID: 10746663 [PubMed - indexed for MEDLINE]
-  **73:** [Nagai M, Kyakumoto S, Sato N.](#) [Related Articles, Links](#)
-  **Cancer cells responsible for humoral hypercalcemia express mRNA encoding a secreted form of ODF/TRANCE that induces osteoclast formation.**  
Biochem Biophys Res Commun. 2000 Mar 16;269(2):532-6.  
PMID: 10708588 [PubMed - indexed for MEDLINE]
-  **74:** [Takayanagi H, Iizuka H, Juji T, Nakagawa T, Yamamoto A.](#) [Related Articles, Links](#)

Miyazaki T, Koshihara Y, Oda H, Nakamura K, Tanaka S.



**Involvement of receptor activator of nuclear factor kappaB ligand/osteoclast differentiation factor in osteoclastogenesis from synoviocytes in rheumatoid arthritis.**

Arthritis Rheum. 2000 Feb;43(2):259-69.

PMID: 10693864 [PubMed - indexed for MEDLINE]

- ☐ **75:** Gravallese EM, Manning C, Tsay A, Naito A, Pan C, Amento E, Goldring SR. [Related Articles](#), [Links](#)



**Synovial tissue in rheumatoid arthritis is a source of osteoclast differentiation factor.**

Arthritis Rheum. 2000 Feb;43(2):250-8.

PMID: 10693863 [PubMed - indexed for MEDLINE]

- ☐ **76:** Matsuo K, Owens JM, Tonko M, Elliott C, Chambers TJ, Wagner EF. [Related Articles](#), [Links](#)



**Fosl1 is a transcriptional target of c-Fos during osteoclast differentiation.**

Nat Genet. 2000 Feb;24(2):184-7.

PMID: 10655067 [PubMed - indexed for MEDLINE]

- ☐ **77:** Hofbauer LC, Khosla S, Dunstan CR, Lacey DL, Boyle WJ, Riggs BL. [Related Articles](#), [Links](#)



**The roles of osteoprotegerin and osteoprotegerin ligand in the paracrine regulation of bone resorption.**

J Bone Miner Res. 2000 Jan;15(1):2-12. Review.

PMID: 10646108 [PubMed - indexed for MEDLINE]

- ☐ **78:** Kobayashi K, Takahashi N, Jimi E, Udagawa N, Takami M, Kotake S, Nakagawa N, Kinoshita M, Yamaguchi K, Shima N, Yasuda H, Morinaga T, Higashio K, Martin TJ, Suda T. [Related Articles](#), [Links](#)



**Tumor necrosis factor alpha stimulates osteoclast differentiation by a mechanism independent of the ODF/RANKL-RANK interaction.**

J Exp Med. 2000 Jan 17;191(2):275-86.

PMID: 10637272 [PubMed - indexed for MEDLINE]

- ☐ **79:** Chikatsu N, Takeuchi Y, Tamura Y, Fukumoto S, Yano K, Tsuda E, Ogata E, Fujita T. [Related Articles](#), [Links](#)



**Interactions between cancer and bone marrow cells induce osteoclast differentiation factor expression and osteoclast-like cell formation in vitro.**

Biochem Biophys Res Commun. 2000 Jan 19;267(2):632-7.

PMID: 10631114 [PubMed - indexed for MEDLINE]

- ☐ **80:** Udagawa N, Takahashi N, Jimi E, Matsuzaki K, Tsurukai T, Itoh K, Nakagawa N, Yasuda H, Goto M, Tsuda E, Higashio K, Gillespie MT, Martin TJ, Suda T. [Related Articles](#), [Links](#)



**Osteoblasts/stromal cells stimulate osteoclast activation through expression of osteoclast differentiation factor/RANKL but not macrophage colony-stimulating factor: receptor activator of NF-kappa B ligand.**

Bone. 1999 Nov;25(5):517-23.

PMID: 10574571 [PubMed - indexed for MEDLINE]

- ☐ **81:** Kim HH. [Related Articles](#), [Links](#)






















**Characterization of the NF-kappaB activation induced by TR8, an osteoclastogenic tumor necrosis factor receptor family member.**

Arch Pharm Res. 1999 Oct;22(5):454-8.


PMID: 10549571 [PubMed - indexed for MEDLINE]


- ☐ **82:** Nakagawa N, Yasuda H, Yano K, Mochizuki S, Kobayashi N, Fujimoto H, Shima N, Morinaga T, Chikazu D, Kawaguchi H, Higashio K. [Related Articles](#), [Links](#)


-  Basic fibroblast growth factor induces osteoclast formation by reciprocally regulating the production of osteoclast differentiation factor and osteoclastogenesis inhibitory factor in mouse osteoblastic cells.  
Biochem Biophys Res Commun. 1999 Nov;265(1):158-63.  
PMID: 10548507 [PubMed - indexed for MEDLINE]
-  **83:** [Nakagawa N, Yasuda H, Yano K, Mochizuki S, Kobayashi N, Fujimoto H, Yamaguchi K, Shima N, Morinaga T, Higashio K.](#) [Related Articles, Links](#)
-  Basic fibroblast growth factor inhibits osteoclast formation induced by 1alpha,25-dihydroxyvitamin D(3) through suppressing the production of osteoclast differentiation factor.  
Biochem Biophys Res Commun. 1999 Nov;265(1):45-50.  
PMID: 10548488 [PubMed - indexed for MEDLINE]
-  **84:** [Greenfield EM, Bi Y, Miyauchi A.](#) [Related Articles, Links](#)
-  Regulation of osteoclast activity.  
Life Sci. 1999;65(11):1087-102. Review.  
PMID: 10503925 [PubMed - indexed for MEDLINE]
-  **85:** [Thomas RJ, Guise TA, Yin JJ, Elliott J, Horwood NJ, Martin TJ, Gillespie MT.](#) [Related Articles, Links](#)
-  Breast cancer cells interact with osteoblasts to support osteoclast formation.  
Endocrinology. 1999 Oct;140(10):4451-8.  
PMID: 10499498 [PubMed - indexed for MEDLINE]
-  **86:** [Yasuda H, Shima N, Nakagawa N, Yamaguchi K, Kinoshita M, Goto M, Mochizuki SI, Tsuda E, Morinaga T, Udagawa N, Takahashi N, Suda T, Higashio K.](#) [Related Articles, Links](#)
-  A novel molecular mechanism modulating osteoclast differentiation and function.  
Bone. 1999 Jul;25(1):109-13.  
PMID: 10423033 [PubMed - indexed for MEDLINE]
-  **87:** [Naito A, Azuma S, Tanaka S, Miyazaki T, Takaki S, Takatsu K, Nakao K, Nakamura K, Katsuki M, Yamamoto T, Inoue J.](#) [Related Articles, Links](#)
-  Severe osteopetrosis, defective interleukin-1 signalling and lymph node organogenesis in TRAF6-deficient mice.  
Genes Cells. 1999 Jun;4(6):353-62.  
PMID: 10421844 [PubMed - indexed for MEDLINE]
-  **88:** [Jimi E, Akiyama S, Tsurukai T, Okahashi N, Kobayashi K, Udagawa N, Nishihara T, Takahashi N, Suda T.](#) [Related Articles, Links](#)
-  Osteoclast differentiation factor acts as a multifunctional regulator in murine osteoclast differentiation and function.  
J Immunol. 1999 Jul 1;163(1):434-42.  
PMID: 10384146 [PubMed - indexed for MEDLINE]
-  **89:** [Suda T, Takahashi N, Udagawa N, Jimi E, Gillespie MT, Martin TJ.](#) [Related Articles, Links](#)
-  Modulation of osteoclast differentiation and function by the new members of the tumor necrosis factor receptor and ligand families.  
Endocr Rev. 1999 Jun;20(3):345-57. Review.  
PMID: 10368775 [PubMed - indexed for MEDLINE]
-  **90:** [Tanio Y, Yamazaki H, Kunisada T, Miyake K, Hayashi SI.](#) [Related Articles, Links](#)
-  CD9 molecule expressed on stromal cells is involved in osteoclastogenesis.  
Exp Hematol. 1999 May;27(5):853-9.  
PMID: 10340401 [PubMed - indexed for MEDLINE]
-  **91:** [Koide M, Murase Y, Yamato K, Noguchi T, Okahashi N, Nishihara T.](#) [Related Articles, Links](#)


-  **Bone morphogenetic protein-2 enhances osteoclast formation mediated by interleukin-1alpha through upregulation of osteoclast differentiation factor and cyclooxygenase-2.**  
 Biochem Biophys Res Commun. 1999 May 27;259(1):97-102.  
 PMID: 10334922 [PubMed - indexed for MEDLINE]


 **92:** [Kong YY, Boyle WJ, Penninger JM.](#) Related Articles, Links

-  **Osteoprotegerin ligand: a common link between osteoclastogenesis, lymph node formation and lymphocyte development.**  
 Immunol Cell Biol. 1999 Apr;77(2):188-93. Review.  
 PMID: 10234557 [PubMed - indexed for MEDLINE]


 **93:** [Kotake S, Udagawa N, Takahashi N, Matsuzaki K, Itoh K, Ishiyama S, Saito S, Inoue K, Kamatani N, Gillespie MT, Martin TJ, Suda T.](#) Related Articles, Links


-  **IL-17 in synovial fluids from patients with rheumatoid arthritis is a potent stimulator of osteoclastogenesis.**  
 J Clin Invest. 1999 May;103(9):1345-52.  
 PMID: 10225978 [PubMed - indexed for MEDLINE]


 **94:** [Kitazawa R, Kitazawa S, Maeda S.](#) Related Articles, Links

-  **Promoter structure of mouse RANKL/TRANCE/OPGL/ODF gene.**  
 Biochim Biophys Acta. 1999 Apr 14;1445(1):134-41.  
 PMID: 10209265 [PubMed - indexed for MEDLINE]


 **95:** [Nagai M, Sato N.](#) Related Articles, Links


-  **Reciprocal gene expression of osteoclastogenesis inhibitory factor and osteoclast differentiation factor regulates osteoclast formation.**  
 Biochem Biophys Res Commun. 1999 Apr 21;257(3):719-23.  
 PMID: 10208850 [PubMed - indexed for MEDLINE]


 **96:** [Kodaira K, Kodaira K, Mizuno A, Yasuda H, Shima N, Murakami A, Ueda M, Higashio K.](#) Related Articles, Links


-  **Cloning and characterization of the gene encoding mouse osteoclast differentiation factor.**  
 Gene. 1999 Apr 1;230(1):121-7.  
 PMID: 10196481 [PubMed - indexed for MEDLINE]


 **97:** [Takahashi N, Udagawa N, Suda T.](#) Related Articles, Links

-  **A new member of tumor necrosis factor ligand family, ODF/OPGL/TRANCE/RANKL, regulates osteoclast differentiation and function.**  
 Biochem Biophys Res Commun. 1999 Mar 24;256(3):449-55. Review.  
 PMID: 10080918 [PubMed - indexed for MEDLINE]

 **98:** [Kong YY, Yoshida H, Sarosi J, Tan HL, Timms E, Capparelli C, Morony S, Oliveira-dos-Santos AJ, Van G, Itie A, Khoo W, Wakeham A, Dunstan CR, Lacey DL, Mak TW, Boyle WJ, Penninger JM.](#) Related Articles, Links

-  **OPGL is a key regulator of osteoclastogenesis, lymphocyte development and lymph-node organogenesis.**  
 Nature. 1999 Jan 28;397(6717):315-23.  
 PMID: 9950424 [PubMed - indexed for MEDLINE]

 **99:** [Nakagawa N, Kinoshita M, Yamaguchi K, Shima N, Yasuda H, Yano K, Morinaga T, Higashio K.](#) Related Articles, Links

-  **RANK is the essential signaling receptor for osteoclast differentiation factor in osteoclastogenesis.**  
 Biochem Biophys Res Commun. 1998 Dec 18;253(2):395-400.

PMID: 9878548 [PubMed - indexed for MEDLINE]

- 100: [Gao YH, Shinki T, Yuasa T, Kataoka-Enomoto H, Komori T, Suda T, Yamaguchi A.](#) [Related Articles, Links](#)



Potential role of cbfa1, an essential transcriptional factor for osteoblast differentiation, in osteoclastogenesis: regulation of mRNA expression of osteoclast differentiation factor (ODF).

Biochem Biophys Res Commun. 1998 Nov 27;252(3):697-702.

PMID: 9837769 [PubMed - indexed for MEDLINE]

- 101: [Horwood NJ, Elliott J, Martin TJ, Gillespie MT.](#) [Related Articles, Links](#)



Osteotropic agents regulate the expression of osteoclast differentiation factor and osteoprotegerin in osteoblastic stromal cells.

Endocrinology. 1998 Nov;139(11):4743-6.

PMID: 9794488 [PubMed - indexed for MEDLINE]

- 102: [Hakeda Y, Kobayashi Y, Yamaguchi K, Yasuda H, Tsuda E, Higashio K, Mivata T, Kumegawa M.](#) [Related Articles, Links](#)



Osteoclastogenesis inhibitory factor (OCIF) directly inhibits bone-resorbing activity of isolated mature osteoclasts.

Biochem Biophys Res Commun. 1998 Oct 29;251(3):796-801.

PMID: 9790989 [PubMed - indexed for MEDLINE]

- 103: [Quinn JM, Elliott J, Gillespie MT, Martin TJ.](#) [Related Articles, Links](#)



A combination of osteoclast differentiation factor and macrophage-colony stimulating factor is sufficient for both human and mouse osteoclast formation in vitro.

Endocrinology. 1998 Oct;139(10):4424-7.

PMID: 9751528 [PubMed - indexed for MEDLINE]

- 104: [Martin TJ, Romas E, Gillespie MT.](#) [Related Articles, Links](#)



Interleukins in the control of osteoclast differentiation.

Crit Rev Eukaryot Gene Expr. 1998;8(2):107-23. Review.

PMID: 9714893 [PubMed - indexed for MEDLINE]

- 105: [Tsukii K, Shima N, Mochizuki S, Yamaguchi K, Kinoshita M, Yano K, Shibata O, Udagawa N, Yasuda H, Suda T, Higashio K.](#) [Related Articles, Links](#)



Osteoclast differentiation factor mediates an essential signal for bone resorption induced by 1 alpha,25-dihydroxyvitamin D3, prostaglandin E2, or parathyroid hormone in the microenvironment of bone.

Biochem Biophys Res Commun. 1998 May 19;246(2):337-41.

PMID: 9610359 [PubMed - indexed for MEDLINE]

- 106: [Matsuzaki K, Udagawa N, Takahashi N, Yamaguchi K, Yasuda H, Shima N, Morinaga T, Toyama Y, Yabe Y, Higashio K, Suda T.](#) [Related Articles, Links](#)



Osteoclast differentiation factor (ODF) induces osteoclast-like cell formation in human peripheral blood mononuclear cell cultures.

Biochem Biophys Res Commun. 1998 May 8;246(1):199-204.

PMID: 9600092 [PubMed - indexed for MEDLINE]

- 107: [Yasuda H, Shima N, Nakagawa N, Yamaguchi K, Kinoshita M, Mochizuki S, Tomoyasu A, Yano K, Goto M, Murakami A, Tsuda E, Morinaga T, Higashio K, Udagawa N, Takahashi N, Suda T.](#) [Related Articles, Links](#)



Osteoclast differentiation factor is a ligand for osteoprotegerin/osteoclastogenesis-inhibitory factor and is identical to TRANCE/RANKL.

Proc Natl Acad Sci U S A. 1998 Mar 31;95(7):3597-602.

PMID: 9520411 [PubMed - indexed for MEDLINE]



☐ **108:** [Suda T, Udagawa N, Nakamura I, Miyaura C, Takahashi N.](#)

[Related Articles](#), [Links](#)



**Modulation of osteoclast differentiation by local factors.**

Bone. 1995 Aug;17(2 Suppl):87S-91S. Review.

PMID: 8579904 [PubMed - indexed for MEDLINE]

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L4 137 L3 AND EPITOPE

=> D L4 1-137

L4 ANSWER 1 OF 137 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2001:573297 BIOSIS  
DN PREV200100573297  
TI Critical roles of RANK receptor clustering for stimulating the  
\*\*\*osteoclast\*\*\* development.  
AU Miyamoto, T. [Reprint author]; Iwamoto, K. [Reprint author]; Arai, F.  
[Reprint author]; Sawatani, Y. [Reprint author]; Suda, T. [Reprint author]  
CS Cell Differentiation, Kumamoto University, Kumamoto, Japan  
SO Journal of Bone and Mineral Research, (September, 2001) Vol. 16, No.  
Suppl. 1, pp. s379. print.  
Meeting Info.: Twenty-Third Annual Meeting of the American Society for  
Bone and Mineral Research. Phoenix, Arizona, USA. October 12-16, 2001.  
CODEN: JBMREJ. ISSN: 0884-0431.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 12 Dec 2001  
Last Updated on STN: 25 Feb 2002

L4 ANSWER 2 OF 137 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2001:467649 BIOSIS  
DN PREV200100467649  
TI Critical roles of rank receptor clustering for stimulating the  
\*\*\*osteoclast\*\*\* development.  
AU Iwamoto, Katsuya [Reprint author]; Miyamoto, Takeshi [Reprint author];  
Arai, Fumio [Reprint author]; Suda, Toshio [Reprint author]  
CS Dept. of Cell Differentiation, IMEG, Kumamoto University, Kumamoto, Japan  
SO Experimental Hematology (Charlottesville), (August, 2001) Vol. 29, No. 8  
Supplement 1, pp. 45. print.  
Meeting Info.: 30th Annual Meeting of the International Society for  
Experimental Hematology. Tokyo, Japan. August 25-28, 2001.  
CODEN: EXHMA6. ISSN: 0301-472X.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 3 Oct 2001  
Last Updated on STN: 23 Feb 2002

L4 ANSWER 3 OF 137 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1998:402134 BIOSIS  
DN PREV199800402134  
TI Characterization of the intracellular domain of receptor activator of  
NF-kappaB (RANK): Interaction with tumor necrosis factor  
receptor-associated factors and activation of NF-kappaB and c-JUN  
N-terminal kinase.  
AU Darnay, Bryant G.; Haridas, Valsala; Ni, Jian; Moore, Paul A.; Aggarwal,  
Bharat B. [Reprint author]  
CS Cytokine Res. Lab., Dep. Molecular Oncology, Box 143, University Texas M.  
D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX 77030, USA  
SO Journal of Biological Chemistry, (Aug. 7, 1998) Vol. 273, No. 32, pp.  
20551-20555. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DT Article  
LA English  
ED Entered STN: 21 Sep 1998  
Last Updated on STN: 21 Sep 1998

L4 ANSWER 4 OF 137 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2003-05364 BIOTECHDS  
TI New secreted Frizzled-related protein-1-binding peptide, for enhancing or  
stimulating \*\*\*osteoclast\*\*\* differentiation or to modify T-cell  
activity in a subject with e.g. abnormal bone remodeling, achondroplasia  
or osteopetrosis;  
recombinant protein production via plasmid expression in host cell for  
disease therapy

AU RUBIN J S; UREN A; HORWOOD N J; GILLESPIE M T; KAY B K; WEISBLUM B  
PA US DEPT HEALTH and HUMAN SERVICES; ST VINCENTS INST MEDICAL RES  
PI WO 2002055547 18 Jul 2002  
AI WO 2002-US869 10 Jan 2002  
PRAI US 2001-260908 10 Jan 2001; US 2001-260908 10 Jan 2001  
DT Patent  
LA English  
OS WPI: 2002-740678 [80]

L4 ANSWER 5 OF 137 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:413999 CAPLUS  
DN 139:2109  
TI cDNAs encoding human endokine .alpha. and their use in diagnosis and  
treatment of metabolic bone diseases  
IN Yu, Guo-Liang; Ni, Jian; Rosen, Craig A.; Nardelli, Bernardetta  
PA USA  
SO U.S. Pat. Appl. Publ., 145 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003100074	A1	20030529	US 2002-218547	20020815
	WO 2003070763	A1	20030828	WO 2002-US25809	20020815
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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PRAI	US 2001-312542P	P	20010816		
	US 2001-330761P	P	20011030		

L4 ANSWER 6 OF 137 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:507559 CAPLUS  
DN 135:97415  
TI Chimeric proteins for antitumor and immunological signal modulation  
IN Tykocinski, Mark L.; Huang, Jui-Han  
PA TR Associates, L.L.C., USA  
SO PCT Int. Appl., 51 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

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JP	2003521485	T2	20030715	JP 2001-549685	20010103
US	2003216546	A1	20031120	US 2002-169686	20021031
PRAI	US 2000-174258P	P	20000103		
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DN 132:235902  
TI Down-regulating osteoprotegerin ligand activity with autovaccines

IN Halkier, Torben; Haaning, Jesper  
PA M & E Biotech A/S, Den.  
SO PCT Int. Appl., 110 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

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	JP 2002525060	T2	20020813	JP 2000-570334	19990913
	EE 200100149	A	20020815	EE 2001-149	19990913
	US 6645500	B1	20031111	US 1999-396937	19990915
	NO 2001001304	A	20010515	NO 2001-1304	20010314
	HR 2001000188	A1	20020430	HR 2001-188	20010314
	ZA 2001002131	A	20020614	ZA 2001-2131	20010314
PRAI	DK 1998-1164	A	19980915		
	US 1998-102896P	P	19981002		
	WO 1999-DK481	W	19990913		

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 137 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:34972 CAPLUS  
DN 132:89246  
TI Mammalian genes encoding dendritic cell prostaglandin-like transporter (DC-PGT), HDTEA84, HSLJD37R and \*\*\*\*RANKL\*\*\*\*, HCC5 chemokine, deubiquitinating 11 and 12 (Dub11, Dub12), MD-1, MD-2 and cyclin E3  
IN Bates, Elizabeth Esther Mary; Lebecque, Serge J. E.; Murphy, Erin E.; Mattson, Jeanine D.; Gorman, Daniel M.; Hedrick, Joseph A.; Wang, Luquan; Zlotnik, Albert; Murgolo, Nicholas J.; Greene, Jonathan R.; Johnston, James A.; Bazan, Jose Fernando; Mahony, Daniel; Lees, Emma M.  
PA Schering Corporation, USA  
SO PCT Int. Appl., 218 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000001817	A2	20000113	WO 1999-US12366	19990706
	WO 2000001817	A3	20000629		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UZ, VN, YU, ZA, ZM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9948185	A1	20000124	AU 1999-48185	19990706
	EP 1093516	A2	20010425	EP 1999-931753	19990706
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	JP 2002519062	T2	20020702	JP 2000-558207	19990706
	US 2002143147	A1	20021003	US 2001-840795	20010423
PRAI	US 1998-110938	A	19980706		
	US 1998-114466	A	19980713		
	US 1998-93897P	P	19980723		
	US 1998-132968	A	19980812		
	US 1998-136214	A	19980818		

US 1998-99999P P 19980911  
US 1998-92658P P 19980713  
WO 1999-US12366 W 19990706  
US 1999-351777 B1 19990712

L4 ANSWER 9 OF 137 DISSABS COPYRIGHT (C) 2004 ProQuest Information and  
Learning Company; All Rights Reserved on STN  
AN 2002:50580 DISSABS Order Number: AAI3046089  
TI Development and phenotypic characterization of transgenic mice with  
bone-directed overexpression of insulin-like growth factor-I  
AU Jiang, Jin [Ph.D.]; Kream, Barbara [adviser]  
CS The University of Connecticut (0056)  
SO Dissertation Abstracts International, (2002) Vol. 63, No. 3B, p. 1171.  
Order No.: AAI3046089. 148 pages.  
ISBN: 0-493-60103-1.  
DT Dissertation  
FS DAI  
LA English

L4 ANSWER 10 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAY84428 Peptide DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Amino acid sequence of the tetanus toxoid P30 \*\*\*epitope\*\*\* .

L4 ANSWER 11 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAY84427 Peptide DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Amino acid sequence of the tetanus toxoid P2 \*\*\*epitope\*\*\* .

L4 ANSWER 12 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAY84426 Protein DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
CR N-PSDB: AAZ99973  
DESC An osteoprotegerin ligand/tetanus toxoid P30 \*\*\*epitope\*\*\* fusion  
protein.

L4 ANSWER 13 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAY84425 Protein DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002



DT Patent  
LA English  
OS 2000-271444 [23]  
CR N-PSDB: AAZ99972  
DESC DNA encoding osteoprotegerin ligand/tetanus toxoid P30 \*\*\*epitope\*\*\* fusion.

L4 ANSWER 14 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAY84424 Protein DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002

DT Patent  
LA English  
OS 2000-271444 [23]  
CR N-PSDB: AAZ99971  
DESC An osteoprotegerin ligand/tetanus toxoid P30 \*\*\*epitope\*\*\* fusion.

L4 ANSWER 15 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAY84423 Protein DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002

DT Patent  
LA English  
OS 2000-271444 [23]  
CR N-PSDB: AAZ99970  
DESC An osteoprotegerin ligand/tetanus toxoid P30 \*\*\*epitope\*\*\* fusion protein.

L4 ANSWER 16 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99986 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002

DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 17 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99984 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002

DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 18 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99983 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.

PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 19 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99982 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 20 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99981 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 21 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99980 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 22 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99979 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 23 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99978 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p

AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 24 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99977 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 25 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99975 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
DESC Primer used to amplify a murine osteoprotegerin ligand DNA fragment.

L4 ANSWER 26 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99973 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
CR P-PSDB: AAY84426  
DESC DNA encoding osteoprotegerin ligand/tetanus toxoid P30 \*\*\*epitope\*\*\*  
fusion.

L4 ANSWER 27 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99972 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
CR P-PSDB: AAY84425  
DESC DNA encoding osteoprotegerin ligand/tetanus toxoid P2 \*\*\*epitope\*\*\*  
fusion.

L4 ANSWER 28 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99971 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -

IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
CR P-PSDB: AAY84424  
DESC DNA encoding osteoprotegerin ligand/tetanus toxoid P2 \*\*\*epitope\*\*\*  
fusion.

L4 ANSWER 29 OF 137 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
AN AAZ99970 DNA DGENE  
TI In vivo down-regulation of osteoprotegerin ligand ( \*\*\*OPGL\*\*\* )  
activity used to treat, prevent and ameliorate osteoporosis -  
IN Halkier T; Haaning J  
PA (MEBI-N) M & E BIOTECH AS.  
PI WO 2000015807 A1 20000323 110p  
AI WO 1999-DK481 19990913  
PRAI DK 1998-1164 19980915  
US 1998-102896 19981002  
DT Patent  
LA English  
OS 2000-271444 [23]  
CR P-PSDB: AAY84423  
DESC DNA encoding osteoprotegerin ligand/tetanus toxoid P30 \*\*\*epitope\*\*\*  
fusion.

L4 ANSWER 30 OF 137 IMSRESEARCH COPYRIGHT 2004 IMSWORLD on STN

ACCESSION NUMBER: 2001:135 IMSRESEARCH  
SOURCE: R&D Focus, (17 Feb 2003)  
LABORATORY NAME: ME 107  
TRADE NAME: \*\*\*AutoVac RANKL PHARMACCINE\*\*\*  
STRUCTURE:

STRUCTURE DIAGRAM IS NOT AVAILABLE  
CLASSIFICATION: M5X Other Musculoskeletal Products; J7A9 Other  
Unspecified Vaccines  
HIGHEST DEV. PHASE: Preclinical (20)

COMPANY INFORMATION:

Type	Company	Nationality
Originator	Pharmexa	Denmark
Assignee	Mouritsen and Elsner	

LICENSING CONTACT:

David Gee, Director of Licensing, Pharmexa, Kogle Alle 6, DK 2970, Horsholm,  
Denmark; Tel: +45 4516 2525; Fax: +45 4516 2500; Email: dg@pharmexa.com

L4 ANSWER 31 OF 137 USPATFULL on STN  
AN 2004:101958 USPATFULL  
TI Sfrp and peptide motifs that interact with sfrp and methods of their use  
IN Rubin, Jeffrey S., Potomac, MD, UNITED STATES  
Uren, Aykut, Rockville, MD, UNITED STATES  
Kay, Brian K., Hinsdale, IL, UNITED STATES  
Weisblum, Bernard, Madison, WI, UNITED STATES  
Gillespie, Matthew Todd, Mount Waverly, AUSTRALIA  
Horwood, Nicole Joy, Ashwood, AUSTRALIA  
PI US 2004077828 A1 20040422  
AI US 2003-466136 A1 20030710 (10)  
WO 2002-US869 20020110  
DT Utility  
FS APPLICATION  
LN.CNT 2941  
INCL INCLM: 530/328.000  
NCL NCLM: 530/328.000  
IC [7]  
ICM: C07K007-06  
ICS: C07K007-08

L4 ANSWER 32 OF 137 USPATFULL on STN  
AN 2004:100750 USPATFULL  
TI Molecular antigen arrays  
IN Bachmann, Martin F., Seuzach, SWITZERLAND  
Tissot, Alain, Zurich, SWITZERLAND  
Pumpens, Paul, Riga, LATVIA  
Cielens, Indulis, Riga, LATVIA  
Renhofa, Regina, Riga, LATVIA  
PI US 2004076611 A1 20040422  
AI US 2003-617876 A1 20030714 (10)  
PRAI US 2002-396126P 20020717 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 5340  
INCL INCLM: 424/093.200  
INCLS: 424/204.100  
NCL NCLM: 424/093.200  
NCLS: 424/204.100  
IC [7]  
ICM: A61K048-00  
ICS: A61K039-12

L4 ANSWER 33 OF 137 USPATFULL on STN  
AN 2004:82681 USPATFULL  
TI UMLR polypeptides  
IN Xu, Wenfeng, Mukilteo, WA, UNITED STATES  
Lofton-Day, Catherine E., Brier, WA, UNITED STATES  
Henne, Randal M., Seattle, WA, UNITED STATES  
Presnell, Scott R., Tacoma, WA, UNITED STATES  
Yao, Yue, Kenmore, WA, UNITED STATES  
Novak, Julia E., Bainbridge Island, WA, UNITED STATES  
PA ZymoGenetics, Inc. (U.S. corporation)  
PI US 2004063132 A1 20040401  
AI US 2003-660968 A1 20030912 (10)  
RLI Continuation of Ser. No. US 2000-695369, filed on 23 oct 2000, ABANDONED  
PRAI US 1999-160880P 19991022 (60)  
US 1999-163215P 19991102 (60)  
US 2000-218769P 20000717 (60)  
US 2000-222221P 20000801 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 5048  
INCL INCLM: 435/006.000  
INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 530/388.220;  
536/023.500  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 530/388.220;  
536/023.500  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-715; C07K016-28  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 34 OF 137 USPATFULL on STN  
AN 2004:82638 USPATFULL  
TI Function homology screening  
IN Berg, Ellen L., Palo Alto, CA, UNITED STATES  
Butcher, Eugene C., Portola Valley, CA, UNITED STATES  
Melrose, Jennifer, La Honda, CA, UNITED STATES  
Plavec, Ivan, Sunnyvale, CA, UNITED STATES  
PI US 2004063088 A1 20040401  
AI US 2003-220999 A1 20030911 (10)  
WO 2001-US7190 20010306  
DT Utility  
FS APPLICATION  
LN.CNT 4777  
INCL INCLM: 435/004.000  
INCLS: 435/007.200  
NCL NCLM: 435/004.000  
NCLS: 435/007.200  
IC [7]  
ICM: C12Q001-00  
ICS: G01N033-53; G01N033-567  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 35 OF 137 USPATFULL on STN

AN 2004:70135 USPATFULL  
TI Mehtod of producing functional protein domains  
IN De luca, Giampiero, Conches, SWITZERLAND  
Falciola, Luca, Geneva, SWITZERLAND  
PI US 2004053362 A1 20040318  
AI US 2003-343684 A1 20030617 (10)  
WO 2001-GB3455 20010801  
PRAI GB 2000-18876 20000801  
DT Utility  
FS APPLICATION  
LN.CNT 2487  
INCL INCLM: 435/069.100  
NCL NCLM: 435/069.100  
IC [7]  
ICM: C12P021-02  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 36 OF 137 USPATFULL on STN  
AN 2004:70097 USPATFULL  
TI Assays and compositions for identifying agents that modulate the  
activity of deubiquitinating agents  
IN Wong, Brian, San Mateo, CA, UNITED STATES  
Pray, Todd R., San Francisco, CA, UNITED STATES  
Huang, Jianing, Foster City, CA, UNITED STATES  
Anderson, David, San Bruno, CA, UNITED STATES  
PI US 2004053324 A1 20040318  
AI US 2002-232759 A1 20020830 (10)  
DT Utility  
FS APPLICATION  
LN.CNT 5740  
INCL INCLM: 435/007.100  
INCL: 435/023.000  
NCL NCLM: 435/007.100  
NCL: 435/023.000  
IC [7]  
ICM: G01N033-53  
ICS: C12Q001-37  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 37 OF 137 USPATFULL on STN  
AN 2004:66006 USPATFULL  
TI DNA array sequence selection  
IN Lorenz, Matthias, Bethesda, MD, United States  
PA The United States of America as represented by the Department of Health  
and Human Services, Washington, DC, United States (U.S. government)  
PI US 6706867 B1 20040316  
AI US 2000-741238 20001219 (9)  
DT Utility  
FS GRANTED  
LN.CNT 23532  
INCL INCLM: 536/023.100  
INCL: 536/024.320; 536/024.310; 536/024.300; 435/006.000  
NCL NCLM: 536/023.100  
NCL: 536/024.320; 536/024.310; 536/024.300; 435/006.000  
IC [7]  
ICM: C07H021-04  
ICS: C12Q001-68  
EXF 435/6; 536/24.32; 536/24.31; 536/24.33; 536/23.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 38 OF 137 USPATFULL on STN  
AN 2004:63786 USPATFULL  
TI 95 human secreted proteins  
IN Ruben, Steven M., Brookeville, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Young, Paul, Gaithersburg, MD, UNITED STATES  
Feng, Ping, Germantown, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
Endress, Gregory A., Florence, MA, UNITED STATES  
Duan, Roxanne, Gaithersburg, MD, UNITED STATES  
Kyaw, Hla, Boonsboro, MD, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES

Olsen, Henrik, Gaithersburg, MD, UNITED STATES  
 Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
 Moore, Paul A., Germantown, MD, UNITED STATES  
 PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)  
 PI US 2004048304 A1 20040311  
 AI US 2003-653595 A1 20030903 (10)  
 RLI Continuation of Ser. No. US 1999-397945, filed on 17 Sep 1999, PENDING  
 Continuation-in-part of Ser. No. WO 1999-US5804, filed on 18 Mar 1999, PENDING  
 PRAI US 1998-78566P 19980319 (60)  
 US 1998-78574P 19980319 (60)  
 US 1998-78576P 19980319 (60)  
 US 1998-78579P 19980319 (60)  
 US 1998-78563P 19980319 (60)  
 US 1998-78573P 19980319 (60)  
 US 1998-78578P 19980319 (60)  
 US 1998-78581P 19980319 (60)  
 US 1998-78577P 19980319 (60)  
 US 1998-80314P 19980401 (60)  
 US 1998-80312P 19980401 (60)  
 US 1998-80313P 19980401 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 24852  
 INCL INCLM: 435/006.000  
 INCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000;  
 536/023.200  
 NCL NCLM: 435/006.000  
 NCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000;  
 536/023.200  
 IC [7]  
 ICM: C12Q001-68  
 ICS: C07H021-04; C12P021-02; C12N005-06; C12N009-00  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 L4 ANSWER 39 OF 137 USPATFULL on STN  
 AN 2004:57395 USPATFULL  
 TI IL-17 homologous polypeptides and therapeutic uses thereof  
 IN Chen, Jian, Princeton, NJ, UNITED STATES  
 Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
 Fong, Sherman, Alameda, CA, UNITED STATES  
 Goddard, Audrey, San Francisco, CA, UNITED STATES  
 Godowski, Paul, Hillsborough, CA, UNITED STATES  
 Grimaldi, Christopher, San Francisco, CA, UNITED STATES  
 Gurney, Austin, Belmont, CA, UNITED STATES  
 Li, Hanzhong, San Mateo, CA, UNITED STATES  
 Hillan, Kenneth, San Francisco, CA, UNITED STATES  
 Tumas, Daniel, Orinda, CA, UNITED STATES  
 VanLookeren, Menno, San Francisco, CA, UNITED STATES  
 Vandlen, Richard, Hillsborough, CA, UNITED STATES  
 Watanabe, Colin K., Moraga, CA, UNITED STATES  
 Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
 Wood, William I., Hillsborough, CA, UNITED STATES  
 Yansura, Daniel, Pacifica, CA, UNITED STATES  
 PA Genentech, Inc., South San Francisco, CA (U.S. corporation)  
 PI US 2004043397 A1 20040304  
 AI US 2003-408385 A1 20030407 (10)  
 RLI Division of Ser. No. US 2000-747259, filed on 20 Dec 2000, GRANTED, Pat.  
 No. US 6569645 Continuation-in-part of Ser. No. WO 2000-US30873, filed  
 on 10 Nov 2000, PENDING Continuation-in-part of Ser. No. WO  
 2000-US23328, filed on 24 Aug 2000, PENDING  
 PRAI US 2000-175481P 20000111 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 8591  
 INCL INCLM: 435/006.000  
 INCLS: 435/069.100; 435/320.100; 435/325.000; 530/388.100; 530/350.000;  
 536/023.500  
 NCL NCLM: 435/006.000  
 NCLS: 435/069.100; 435/320.100; 435/325.000; 530/388.100; 530/350.000;  
 536/023.500  
 IC [7]  
 ICM: C12Q001-68  
 ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-47; C07K016-18  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 40 OF 137 USPATFULL on STN  
 AN 2004:57384 USPATFULL  
 TI Methods and compositions for functional ubiquitin assays  
 IN Pray, Todd, San Francisco, CA, UNITED STATES  
 Wong, Brian, Los Altos, CA, UNITED STATES  
 Bennett, Mark, Moraga, CA, UNITED STATES  
 Parlatti, Frank, San Francisco, CA, UNITED STATES  
 PI US 2004043386 A1 20040304  
 AI US 2002-232951 A1 20020830 (10)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 3105  
 INCL INCLM: 435/006.000  
 INCLS: 435/007.200; 435/456.000  
 NCL NCLM: 435/006.000  
 NCLS: 435/007.200; 435/456.000  
 IC [7]  
 ICM: C12Q001-68  
 ICS: G01N033-53; G01N033-567; C12N015-867  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 41 OF 137 USPATFULL on STN  
 AN 2004:45202 USPATFULL  
 TI 98 human secreted proteins  
 IN Komatsoulis, George A., Silver Spring, MD, UNITED STATES  
 Rosen, Craig A., Laytonsville, MD, UNITED STATES  
 Ruben, Steven M., Brookeville, MD, UNITED STATES  
 Duan, D. Roxanne, Bethesda, MD, UNITED STATES  
 Moore, Paul A., Germantown, MD, UNITED STATES  
 Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
 LaFleur, David W., Washington, DC, UNITED STATES  
 Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
 PI US 2004034196 A1 20040219  
 AI US 2003-351334 A1 20030127 (10)  
 RLI Continuation-in-part of Ser. No. US 2000-489847, filed on 24 Jan 2000,  
 GRANTED, Pat. No. US 6476195 Continuation-in-part of Ser. No. WO  
 1999-US17130, filed on 29 Jul 1999, PENDING  
 PRAI US 2002-350898P 20020125 (60)  
 US 1998-94657P 19980730 (60)  
 US 1998-95486P 19980805 (60)  
 US 1998-96319P 19980812 (60)  
 US 1998-95454P 19980806 (60)  
 US 1998-95455P 19980806 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 24589  
 INCL INCLM: 530/350.000  
 INCLS: 530/388.100; 536/023.500; 435/006.000; 435/069.100; 435/320.100;  
 435/325.000  
 NCL NCLM: 530/350.000  
 NCLS: 530/388.100; 536/023.500; 435/006.000; 435/069.100; 435/320.100;  
 435/325.000  
 IC [7]  
 ICM: C12Q001-68  
 ICS: C07H021-04; C12P021-02; C12N005-06; C07K014-47; C07K016-40  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 42 OF 137 USPATFULL on STN  
 AN 2004:44221 USPATFULL  
 TI Antigen arrays for treatment of bone disease  
 IN Bachmann, Martin, Seuzach, SWITZERLAND  
 Maurer, Patrick, Winterthur, SWITZERLAND  
 Spohn, Gunther, Schlieren, SWITZERLAND  
 PI US 2004033211 A1 20040219  
 AI US 2002-289456 A1 20021107 (10)  
 RLI Continuation-in-part of Ser. No. US 2002-50902, filed on 18 Jan 2002,  
 PENDING Continuation-in-part of Ser. No. WO 2002-IB166, filed on 21 Jan  
 2002, UNKNOWN  
 PRAI US 2001-331045P 20011107 (60)  
 US 2002-396635P 20020719 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 4184  
 INCL INCLM: 424/093.200  
 INCLS: 435/456.000; 435/235.100



NCL NCLM: 424/093.200  
NCLS: 435/456.000; 435/235.100  
IC [7]  
ICM: A61K048-00  
ICS: C12N007-01; C12N015-86  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 43 OF 137 USPATFULL on STN  
AN 2004:38677 USPATFULL  
TI Proteins, polynucleotides encoding them and methods of using the same  
IN Padigaru, Muralidhara, Branford, CT, UNITED STATES  
Li, Li, Branford, CT, UNITED STATES  
Zerhusen, Bryan D., Branford, CT, UNITED STATES  
Casman, Stacie J., North Haven, CT, UNITED STATES  
Shenoy, Suresh G., Branford, CT, UNITED STATES  
Spytek, Kimberly, New Haven, CT, UNITED STATES  
Zhong, Mei, Branford, CT, UNITED STATES  
Gangolli, Esha A., Madison, CT, UNITED STATES  
Burgess, Catherine E., Wethersfield, CT, UNITED STATES  
Patturajan, Meera, Branford, CT, UNITED STATES  
Vernet, Corine A.M., Branford, CT, UNITED STATES  
Taylor, Sarah, Guilford, CT, UNITED STATES  
Tchernev, Velizar T., Branford, CT, UNITED STATES  
Miller, Charles E., Guilford, CT, UNITED STATES  
Guo, Xiaojia, Branford, CT, UNITED STATES  
Boldog, Ferenc L., North Haven, CT, UNITED STATES  
Grosse, William M., Branford, CT, UNITED STATES  
Alsobrook, John P., II, Madison, CT, UNITED STATES  
Gerlach, Valerie L., Branford, CT, UNITED STATES  
Edinger, Shlomit R., New Haven, CT, UNITED STATES  
Rothenberg, Mark E., Clinton, CT, UNITED STATES  
Ellerman, Karen, Branford, CT, UNITED STATES  
MacDougall, John, Hamden, CT, UNITED STATES  
Malyankar, Uriel M., Branford, CT, UNITED STATES  
Millet, Isabelle, Milford, CT, UNITED STATES  
Peyman, John, New Haven, CT, UNITED STATES  
Smithson, Glenda, Branford, CT, UNITED STATES  
Gunther, Erik, Branford, CT, UNITED STATES  
Stone, David, Guilford, CT, UNITED STATES  
PI US 2004029216 A1 20040212  
AI US 2002-42865 A1 20020109 (10)  
PRAI US 2001-260417P 20010109 (60)  
US 2001-260831P 20010110 (60)  
US 2001-272338P 20010228 (60)  
US 2001-274876P 20010309 (60)  
US 2001-284704P 20010418 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 16255  
INCL INCLM: 435/069.100  
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500  
NCL NCLM: 435/069.100  
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500  
IC [7]  
ICM: C07K014-435  
ICS: C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 44 OF 137 USPATFULL on STN  
AN 2004:38624 USPATFULL  
TI Novel tissue-specific secretory polypeptide and dna thereof  
IN Ito, Yasuaki, Ibaraki, JAPAN  
Mogi, Shinichi, Ibaraki, JAPAN  
PI US 2004029163 A1 20040212  
AI US 2003-450875 A1 20030617 (10)  
WO 2001-JP11080 20011218  
PRAI JP 2000-385192 20001219  
DT Utility  
FS APPLICATION  
LN.CNT 3276  
INCL INCLM: 435/006.000  
INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;  
800/008.000  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;  
800/008.000

IC [7]  
ICM: C12Q001-68  
ICS: A01K067-00; C07H021-04; C12P021-02; C12N005-06; C07K014-47  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 45 OF 137 USPATFULL on STN  
AN 2004:31145 USPATFULL  
TI 90 human secreted proteins  
IN Ruben, Steven M., Brookeville, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
Ferrie, Ann M., Painted Post, NY, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Brewer, Laurie, St. Paul, MN, UNITED STATES  
Janat, Fouad, Westerly, RI, UNITED STATES  
Birse, Charles E., North Potomac, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)  
PI US 2004023283 A1 20040205  
AI US 2003-621363 A1 20030718 (10)  
RLI Continuation of Ser. No. US 2001-969730, filed on 4 Oct 2001, PENDING  
Continuation-in-part of Ser. No. US 2001-774639, filed on 1 Feb 2001,  
PENDING Continuation of Ser. No. US 1999-244112, filed on 4 Feb 1999,  
ABANDONED Continuation-in-part of Ser. No. WO 1998-US16235, filed on 4  
Aug 1998, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 26395  
INCL INCLM: 435/006.000  
INCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000;  
536/023.200  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000;  
536/023.200

IC [7]  
ICM: C12Q001-68  
ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06; C07K014-47  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 46 OF 137 USPATFULL on STN  
AN 2004:19643 USPATFULL  
TI Single-chain antagonist polypeptides  
IN Halkier, Torben, Solroed Strand, DENMARK  
Schambye, Hans Thalsgard, Holte, DENMARK  
Okkels, Jens Sigurd, Vedbaek, DENMARK  
Andersen, Kim Vilbourn, Broenshoej, DENMARK  
Nissen, Torben Lauesgaard, San Francisco, CA, UNITED STATES  
Soni, Bobby, Copenhagen K., DENMARK  
Jeppesen, Claus Bekker, Nivaa, DENMARK  
van den Hazel, Bart, Copenhagen, DENMARK  
PA Maxygen ApS (non-U.S. corporation)  
PI US 2004014948 A1 20040122  
AI US 2003-444691 A1 20030523 (10)  
RLI Continuation of Ser. No. US 2000-684720, filed on 6 Oct 2000, ABANDONED  
PRAI DK 2000-1119 20000720  
DK 1999-1855 19991223  
DK 1999-1438 19991007  
US 1999-160820P 19991021 (60)  
US 2000-174655P 20000106 (60)  
US 2000-225723P 20000816 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 4912  
INCL INCLM: 530/388.220  
INCLS: 530/324.000  
NCL NCLM: 530/388.220  
NCLS: 530/324.000  
IC [7]  
ICM: C07K016-28  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 47 OF 137 USPATFULL on STN  
AN 2004:13003 USPATFULL  
TI Diagnosis, prognosis and identification of potential therapeutic targets  
of multiple myeloma based on gene expression profiling  
IN Shaughnessy, John D., Little Rock, AR, UNITED STATES  
Zhan, Fenghuang, Little Rock, AR, UNITED STATES  
Barlogie, Bart, Little Rock, AR, UNITED STATES  
PI US 2004009523 A1 20040115  
AI US 2003-454263 A1 20030604 (10)  
RLI Continuation-in-part of Ser. No. US 2003-409004, filed on 8 Apr 2003,  
PENDING Continuation-in-part of Ser. No. US 2002-289746, filed on 7 Nov  
2002, PENDING  
PRAI US 2002-403075P 20020813 (60)  
US 2001-348238P 20011107 (60)  
US 2002-355386P 20020208 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 4510  
INCL INCLM: 435/006.000  
NCL NCLM: 435/006.000  
IC [7]  
ICM: C12Q001-68  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 48 OF 137 USPATFULL on STN  
AN 2004:12968 USPATFULL  
TI Nucleic acids, proteins, and antibodies  
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Barash, Steven C., Rockville, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S.  
corporation)  
PI US 2004009488 A1 20040115  
AI US 2002-242515 A1 20020913 (10)  
RLI Continuation of Ser. No. US 2001-764877, filed on 17 Jan 2001, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 32038  
INCL INCLM: 435/006.000  
INCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 536/023.200  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 536/023.200  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 49 OF 137 USPATFULL on STN  
AN 2004:12629 USPATFULL  
TI Apoptosis inducing molecule II and methods of use  
IN Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Ruben, Steven M., Brookeville, MD, UNITED STATES  
Zhai, Yifan, Rockville, MD, UNITED STATES  
Ullrich, Stephen, Rockville, MD, UNITED STATES  
PA Human Genome Sciences, Inc. (U.S. corporation)  
PI US 2004009147 A1 20040115  
AI US 2003-375680 A1 20030228 (10)  
RLI Continuation-in-part of Ser. No. US 2000-523323, filed on 10 Mar 2000,  
GRANTED, Pat. No. US 6635743 Continuation-in-part of Ser. No. US  
1999-252656, filed on 19 Feb 1999, GRANTED, Pat. No. US 6495520  
Continuation-in-part of Ser. No. US 1998-27287, filed on 20 Feb 1998,  
GRANTED, Pat. No. US 6479254 Continuation-in-part of Ser. No. US  
1998-3886, filed on 7 Jan 1998, ABANDONED Continuation-in-part of Ser.  
No. US 1997-822953, filed on 21 Mar 1997, ABANDONED  
PRAI US 2002-360234P 20020301 (60)  
US 1999-168380P 19991202 (60)  
US 1999-148326P 19990811 (60)  
US 1999-142657P 19990706 (60)  
US 1999-137457P 19990604 (60)  
US 1999-124041P 19990311 (60)  
US 1998-75409P 19980220 (60)  
US 1996-13923P 19960322 (60)  
US 1996-30157P 19961031 (60)  
DT Utility  
FS APPLICATION

LN.CNT 13322  
INCL INCLM: 424/085.100  
INCLS: 424/144.100; 514/012.000; 514/011.000; 514/109.000; 514/171.000  
NCL NCLM: 424/085.100  
NCLS: 424/144.100; 514/012.000; 514/011.000; 514/109.000; 514/171.000  
IC [7]  
ICM: A61K038-19  
ICS: A61K038-18; A61K038-13; A61K039-395; A61K031-66; A61K031-573  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 50 OF 137 USPATFULL on STN  
AN 2004:7105 USPATFULL  
TI Packaged virus-like particles for use as adjuvants: method of preparation and use  
IN Bachmann, Martin F., Seuzach, SWITZERLAND  
Renner, Wolfgang A., Kilchberg, SWITZERLAND  
PA Cytos Biotechnology AG (non-U.S. corporation)  
PI US 2004005338 A1 20040108  
AI US 2003-465811 A1 20030620 (10)  
PRAI US 2002-389898P 20020620 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 7617  
INCL INCLM: 424/204.100  
INCLS: 514/002.000; 514/054.000; 514/008.000; 514/044.000; 514/292.000  
NCL NCLM: 424/204.100  
NCLS: 514/002.000; 514/054.000; 514/008.000; 514/044.000; 514/292.000  
IC [7]  
ICM: A61K038-16  
ICS: A61K048-00; A61K039-12; A61K031-739; A61K031-4745  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 51 OF 137 USPATFULL on STN  
AN 2003:330153 USPATFULL  
TI Diagnosis, prognosis and identification of potential therapeutic targets of multiple myeloma based on gene expression profiling  
IN Shaughnessy, John D., Little Rock, AR, UNITED STATES  
Barlogie, Bart, Little Rock, AR, UNITED STATES  
Zhan, Fenghuang, Little Rock, AR, UNITED STATES  
PI US 2003232364 A1 20031218  
AI US 2003-409004 A1 20030408 (10)  
RLI Continuation-in-part of Ser. No. US 2002-289746, filed on 7 Nov 2002, PENDING  
PRAI US 2002-403075P 20020813 (60)  
US 2001-348238P 20011107 (60)  
US 2002-355386P 20020208 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 4100  
INCL INCLM: 435/006.000  
NCL NCLM: 435/006.000  
IC [7]  
ICM: C12Q001-68  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 52 OF 137 USPATFULL on STN  
AN 2003:318756 USPATFULL  
TI Bone morphogenic protein polynucleotides, polypeptides, and antibodies  
IN Young, Paul E., Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Brookeville, MD, UNITED STATES  
PI US 2003224501 A1 20031204  
AI US 2003-366345 A1 20030214 (10)  
RLI Continuation-in-part of Ser. No. US 2003-345236, filed on 16 Jan 2003, PENDING  
Continuation-in-part of Ser. No. US 2001-809269, filed on 16 Mar 2001, ABANDONED  
Continuation-in-part of Ser. No. WO 2001-US9229, filed on 23 Mar 2001, PENDING  
PRAI US 2002-356749P 20020215 (60)  
US 2000-190067P 20000317 (60)  
US 2002-348621P 20020117 (60)  
US 2002-349356P 20020122 (60)  
US 2002-351520P 20020128 (60)  
US 2002-354265P 20020206 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 16963  
INCL INCLM: 435/226.000

NCL INCLS: 435/006.000; 435/069.100; 435/320.100; 435/325.000; 536/023.200  
NCLM: 435/226.000  
IC NCLS: 435/006.000; 435/069.100; 435/320.100; 435/325.000; 536/023.200  
[7]  
ICM: C12N009-64  
ICS: C12Q001-68; C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 53 OF 137 USPATFULL on STN  
AN 2003:306402 USPATFULL  
TI Bone morphogenic protein polynucleotides, polypeptides, and antibodies  
IN Young, Paul E., Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Brookeville, MD, UNITED STATES  
PI US 2003215836 A1 20031120  
AI US 2003-345236 A1 20030116 (10)  
RLI Continuation-in-part of Ser. No. US 2001-809269, filed on 16 Mar 2001,  
ABANDONED Continuation-in-part of Ser. No. WO 2001-US9229, filed on 23  
Mar 2001, PENDING  
PRAI US 2000-190067P 20000317 (60)  
US 2002-348621P 20020117 (60)  
US 2002-349356P 20020122 (60)  
US 2002-351520P 20020128 (60)  
US 2002-354265P 20020206 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 17572  
INCL INCLM: 435/006.000  
INCLS: 435/007.100; 435/069.100; 435/226.000; 435/320.100; 435/325.000;  
424/094.650; 536/023.200  
NCL NCLM: 435/006.000  
NCLS: 435/007.100; 435/069.100; 435/226.000; 435/320.100; 435/325.000;  
424/094.650; 536/023.200  
IC [7]  
ICM: C12Q001-68  
ICS: G01N033-53; C07H021-04; A61K038-46; C12N009-64; C12P021-02;  
C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 54 OF 137 USPATFULL on STN  
AN 2003:306018 USPATFULL  
TI Anti-rank ligand monoclonal antibodies useful in treatment of rank  
ligand mediated disorders  
IN Blake, Simon M, King of Prussia, PA, UNITED STATES  
Sweet, Raymond W, Bala Cynwyd, PA, UNITED STATES  
Taylor, Alexander H, Exton, PA, UNITED STATES  
Wattam, Trevor A, Harlow, UNITED KINGDOM  
PI US 2003215450 A1 20031120  
AI US 2002-276939 A1 20021121 (10)  
WO 2001-US16865 20010524  
PRAI US 2000-60207628 20000526  
DT Utility  
FS APPLICATION  
LN.CNT 1645  
INCL INCLM: 424/146.100  
INCLS: 530/388.260; 435/069.100; 435/320.100; 536/023.530; 435/338.000  
NCL NCLM: 424/146.100  
NCLS: 530/388.260; 435/069.100; 435/320.100; 536/023.530; 435/338.000  
IC [7]  
ICM: A61K039-395  
ICS: C07H021-04; C12N005-06; C12P021-02; C07K016-40  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 55 OF 137 USPATFULL on STN  
AN 2003:299885 USPATFULL  
TI Anti-rank ligand monoclonal antibodies useful in treatment of rank  
ligand mediated disorders  
IN Tornetta, Mark A, Malvern, PA, UNITED STATES  
Sweet, Raymond W, Bala Cynwynd, PA, UNITED STATES  
Truneh, Alemseged, King of Prussia, PA, UNITED STATES  
Wattam, Tervor a, Harlow, UNITED KINGDOM  
PI US 2003211106 A1 20031113  
AI US 2003-344779 A1 20030219 (10)  
WO 2001-US26161 20010821  
PRAI US 2000-60226524 20000821  
US 2000-60230639 20000907  
DT utility

FS APPLICATION  
LN.CNT 1672  
INCL INCLM: 424/146.100  
INCLS: 435/069.100; 435/320.100; 435/338.000; 530/388.260; 536/023.530  
NCL NCLM: 424/146.100  
NCLS: 435/069.100; 435/320.100; 435/338.000; 530/388.260; 536/023.530  
IC [7]  
ICM: A61K039-395  
ICS: C07H021-04; C12P021-02; C12N005-06; C07K016-40; G01N033-543  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 56 OF 137 USPATFULL on STN  
AN 2003:296762 USPATFULL  
TI Method for down-regulating osteoprotegerin ligand activity  
IN Halkier, Torben, Birker.o slashed.d, DENMARK  
Haaning, Jesper, Birker.o slashed.d, DENMARK  
PA M & E Biotech A/S, Horsholm, DENMARK (non-U.S. corporation)  
PI US 6645500 B1 20031111  
AI US 1999-396937 19990915 (9)  
PRAI DK 1998-1164 19980915  
US 1998-102896P 19981002 (60)  
DT Utility  
FS GRANTED  
LN.CNT 2801  
INCL INCLM: 424/185.100  
INCLS: 424/198.100; 424/192.100; 424/201.100; 530/350.000; 514/002.000  
NCL NCLM: 424/185.100  
NCLS: 424/192.100; 424/198.100; 424/201.100; 514/002.000; 530/350.000  
IC [7]  
ICM: A61K039-00  
ICS: A61K039-295; A61K038-18; C07K014-51  
EXF 514/2; 424/185.1; 424/192.1; 424/195.11; 424/201.1; 424/198.1; 530/350  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 57 OF 137 USPATFULL on STN  
AN 2003:295027 USPATFULL  
TI Novel Protein and method for producing the protein  
IN Yamaguchi, Kyoji, Saitama, JAPAN  
Yasuda, Hisataka, Tochigi, JAPAN  
Nakagawa, Nobuaki, Tochigi, JAPAN  
Shima, Nobuyuki, Tochigi, JAPAN  
Kinosaki, Masahiko, Tochigi, JAPAN  
Tsuda, Eisuke, Tochigi, JAPAN  
Goto, Masaaki, Tochigi, JAPAN  
Yano, Kazuki, Tochigi, JAPAN  
Tomoyasu, Akihiro, Tochigi, JAPAN  
Kobayashi, Fumie, Tochigi, JAPAN  
Washida, Naohiro, Tochigi, JAPAN  
Takahashi, Ken, Tochigi, JAPAN  
Morinaga, Tomonori, Tochigi, JAPAN  
Higashio, Kanji, Saitama, JAPAN  
PI US 2003208045 A1 20031106  
AI US 2003-460623 A1 20030613 (10)  
RLI Division of Ser. No. US 1998-202455, filed on 15 Dec 1998, PENDING A 371  
of International Ser. No. WO 1998-JP1728, filed on 15 Apr 1998, UNKNOWN  
PRAI JP 1997-8081997 19970415  
JP 1997-151434 19970609  
JP 1997-217897 19970812  
JP 1997-224803 19970821  
JP 1997-332241 19971202  
DT Utility  
FS APPLICATION  
LN.CNT 4318  
INCL INCLM: 530/350.000  
INCLS: 530/388.220; 536/023.500; 435/069.100; 435/320.100; 435/325.000  
NCL NCLM: 530/350.000  
NCLS: 530/388.220; 536/023.500; 435/069.100; 435/320.100; 435/325.000  
IC [7]  
ICM: C07K014-705  
ICS: C07K016-28; C12P021-02; C12N005-06; C07H021-04  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 58 OF 137 USPATFULL on STN  
AN 2003:288693 USPATFULL  
TI IL-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES

Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul, Burlingame, CA, UNITED STATES  
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin, Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Hymowitz, Sarah G., San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
Starovasnik, Melissa A., San Francisco, CA, UNITED STATES  
VanLookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin, Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel, Pacifica, CA, UNITED STATES

PA Genentech, Inc., South San Francisco, CA, UNITED STATES, 94080 (U.S. corporation)

PI US 2003203451 A1 20031030

AI US 2003-458442 A1 20030610 (10)

RLI Division of Ser. No. US 2001-874503, filed on 5 Jun 2001, PENDING  
Continuation-in-part of Ser. No. US 2001-816744, filed on 22 Mar 2001,  
GRANTED, Pat. No. US 6579520 Continuation-in-part of Ser. No. WO  
2001-US6520, filed on 28 Feb 2001, PENDING Continuation-in-part of Ser.  
No. US 2000-747259, filed on 20 Dec 2000, GRANTED, Pat. No. US 6569645  
Continuation-in-part of Ser. No. WO 2000-US23328, filed on 24 Aug 2000,  
PENDING

DT Utility

FS APPLICATION

LN.CNT 8852

INCL INCL: 435/069.100

INCLS: 435/183.000; 435/320.100; 435/325.000; 530/350.000; 530/388.100;  
536/023.200

NCL NCLM: 435/069.100

NCLS: 435/183.000; 435/320.100; 435/325.000; 530/350.000; 530/388.100;  
536/023.200

IC [7]

ICM: C12P021-02

ICS: C12N005-06; C07K014-47; C07K016-18; C07H021-04; C12N009-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 59 OF 137 USPATFULL on STN

AN 2003:288603 USPATFULL

TI 13 human colon and colon cancer associated proteins

IN Rosen, Craig A., Laytonsville, MD, UNITED STATES

Birse, Charles E., North Potomac, MD, UNITED STATES

PA Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)

PI US 2003203361 A1 20031030

AI US 2001-997003 A1 20011130 (9)

RLI Continuation-in-part of Ser. No. WO 2000-US22157, filed on 11 Aug 2000,  
PENDING

PRAI US 1999-148680P 19990813 (60)

DT Utility

FS APPLICATION

LN.CNT 19712

INCL INCL: 435/006.000

INCLS: 435/007.230; 435/069.300; 435/183.000; 435/320.100; 435/325.000;  
536/023.200

NCL NCLM: 435/006.000

NCLS: 435/007.230; 435/069.300; 435/183.000; 435/320.100; 435/325.000;  
536/023.200

IC [7]

ICM: C12Q001-68

ICS: G01N033-574; C07H021-04; C12N009-00; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 60 OF 137 USPATFULL on STN

AN 2003:282701 USPATFULL

TI IL-17 homologous polypeptides and therapeutic uses thereof

IN Chen, Jian, Princeton, NJ, UNITED STATES

Filvaroff, Ellen, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul, Hillsborough, CA, UNITED STATES

Grimaldi, Christopher, San Francisco, CA, UNITED STATES

Gurney, Austin, Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
VanLookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin, Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel, Pacifica, CA, UNITED STATES  
PA Genentech, Inc., South San Francisco, CA, UNITED STATES (U.S.  
corporation)  
PI US 2003199044 A1 20031023  
AI US 2003-410552 A1 20030408 (10)  
RLI Division of Ser. No. US 2000-747259, filed on 20 Dec 2000, GRANTED, Pat.  
No. US 6569645 Continuation-in-part of Ser. No. WO 2000-US23328, filed  
on 24 Aug 2000, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 8602  
INCL INCLM: 435/069.520  
INCLS: 435/320.100; 435/325.000; 530/351.000; 536/023.500; 424/085.200  
NCL NCLM: 435/069.520  
NCLS: 435/320.100; 435/325.000; 530/351.000; 536/023.500; 424/085.200  
IC [7]  
ICM: C12P021-02  
ICS: C12N005-06; C07K014-54; A61K038-20; C07H021-04  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 61 OF 137 USPATFULL on STN  
AN 2003:279233 USPATFULL  
TI Apoptosis inducing molecule II and methods of use  
IN Ebner, Reinhard, Gaithersburg, MD, United States  
Yu, Guo-Liang, Berkeley, CA, United States  
Ruben, Steven M., Olney, MD, United States  
Ullrich, Stephen, Rockville, MD, United States  
Zhai, Yifan, Guilford, CT, United States  
PA Human Genome Sciences, Inc., Rockville, MD, United States (U.S.  
corporation)  
PI US 6635743 B1 20031021  
AI US 2000-523323 20000310 (9)  
RLI Continuation-in-part of Ser. No. US 1999-252656, filed on 19 Feb 1999,  
now patented, Pat. No. US 6495520 Continuation-in-part of Ser. No. US  
1998-27287, filed on 20 Feb 1998, now patented, Pat. No. US 6479254  
Continuation-in-part of Ser. No. US 1998-3886, filed on 7 Jan 1998, now  
abandoned Continuation-in-part of Ser. No. US 1997-822953, filed on 21  
Mar 1997, now abandoned  
PRAI US 1999-168380P 19991202 (60)  
US 1999-148326P 19990811 (60)  
US 1999-142657P 19990706 (60)  
US 1999-137457P 19990604 (60)  
US 1999-124041P 19990311 (60)  
US 1998-75409P 19980220 (60)  
US 1996-30157P 19961031 (60)  
US 1996-13923P 19960322 (60)  
DT Utility  
FS GRANTED  
LN.CNT 11419  
INCL INCLM: 530/388.230  
INCLS: 530/387.300; 530/388.100; 530/389.100; 530/389.200; 530/387.100;  
435/007.100; 930/144.000  
NCL NCLM: 530/388.230  
NCLS: 435/007.100; 530/387.100; 530/387.300; 530/388.100; 530/389.100;  
530/389.200; 930/144.000  
IC [7]  
ICM: C07K016-00  
ICS: C07K016-24; C07K014-525; G01N033-53  
EXF 530/387.1; 530/387.3; 530/388.1; 530/388.23; 530/389.1; 530/389.2;  
435/7.1; 930/144  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 62 OF 137 USPATFULL on STN  
AN 2003:277129 USPATFULL  
TI Peptides and related molecules that bind to TALL-1  
IN Min, Hosung, Newbury Park, CA, UNITED STATES  
Hsu, Hailing, Moorpark, CA, UNITED STATES



Xiong, Fei, Thousand Oaks, CA, UNITED STATES  
PA Amgen Inc. (U.S. corporation)  
PI US 2003195156 A1 20031016  
AI US 2002-145206 A1 20020513 (10)  
PRAI US 2001-290196P 20010511 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2728  
INCL INCLM: 514/014.000  
INCLS: 514/015.000  
NCL NCLM: 514/014.000  
NCLS: 514/015.000  
IC [7]  
ICM: A61K038-10  
ICS: A61K038-08  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 63 OF 137 USPATFULL on STN  
AN 2003:276671 USPATFULL  
TI Methods of producing a library and methods of selecting polynucleotides  
of interest  
IN Zauderer, Maurice, Pittsford, NY, UNITED STATES  
Smith, Ernest S., Ontario, NY, UNITED STATES  
PA University of Rochester (U.S. corporation)  
PI US 2003194696 A1 20031016  
AI US 2002-277161 A1 20021022 (10)  
RLI Continuation-in-part of Ser. No. US 2001-818991, filed on 28 Mar 2001,  
PENDING  
PRAI US 2000-192586P 20000328 (60)  
US 2000-203343P 20000510 (60)  
US 2001-263226P 20010123 (60)  
US 2001-271426P 20010227 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 11239  
INCL INCLM: 435/005.000  
INCLS: 435/006.000; 435/007.100; 435/456.000  
NCL NCLM: 435/005.000  
NCLS: 435/006.000; 435/007.100; 435/456.000  
IC [7]  
ICM: C12Q001-70  
ICS: C12Q001-68; G01N033-53; C12N015-869  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 64 OF 137 USPATFULL on STN  
AN 2003:271455 USPATFULL  
TI Bone marrow specific protein  
IN Duan, D. Roxanne, Bethesda, MD, UNITED STATES  
Ruben, Steven M., Brookeville, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S.  
corporation)  
PI US 2003191062 A1 20031009  
AI US 2003-341344 A1 20030114 (10)  
RLI Division of Ser. No. US 2000-482271, filed on 13 Jan 2000, GRANTED, Pat.  
No. US 6534485  
PRAI US 1999-116236P 19990115 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 8018  
INCL INCLM: 514/012.000  
INCLS: 435/006.000; 435/007.100; 435/069.100; 435/320.100; 435/325.000;  
530/350.000; 536/023.100  
NCL NCLM: 514/012.000  
NCLS: 435/006.000; 435/007.100; 435/069.100; 435/320.100; 435/325.000;  
530/350.000; 536/023.100  
IC [7]  
ICM: C12Q001-68  
ICS: G01N033-53; C07K014-47; A61K038-17; C12P021-02; C12N005-06;  
C07H021-02; C07H021-04  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 65 OF 137 USPATFULL on STN  
AN 2003:265291 USPATFULL  
TI IL-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES  
Filvaroff, Ellen, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul J., Hillsborough, CA, UNITED STATES  
Grimaldi, Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin, Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
VanLookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin, Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel, Pacifica, CA, UNITED STATES  
PA Genentech, Inc., South San Francisco, CA, UNITED STATES (U.S.  
corporation)  
PI US 2003186306 A1 20031002  
AI US 2003-410374 A1 20030408 (10)  
RLI Division of Ser. No. US 2000-747259, filed on 20 Dec 2000, GRANTED, Pat.  
No. US 6569645 Continuation-in-part of Ser. No. WO 2000-US23328, filed  
on 24 Aug 2000, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 8095  
INCL INCLM: 435/006.000  
INCLS: 435/007.100; 435/069.100; 435/320.100; 435/325.000; 530/350.000;  
530/388.100; 536/023.200  
NCL NCLM: 435/006.000  
NCLS: 435/007.100; 435/069.100; 435/320.100; 435/325.000; 530/350.000;  
530/388.100; 536/023.200  
IC [7]  
ICM: C12Q001-68  
ICS: G01N033-53; C07H021-04; C12P021-02; C12N005-06; C07K014-47  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 66 OF 137 USPATFULL on STN  
AN 2003:265282 USPATFULL  
TI \*\*\*Osteoclast\*\*\* -specific genes and proteins and uses thereof  
IN Choi, Yongwon, Bryn Mawr, PA, UNITED STATES  
PI US 2003186297 A1 20031002  
AI US 2003-368087 A1 20030214 (10)  
PRAI US 2002-368638P 20020328 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 1389  
INCL INCLM: 435/006.000  
INCLS: 435/007.200; 435/226.000; 435/069.100; 435/320.100; 435/325.000;  
536/023.200  
NCL NCLM: 435/006.000  
NCLS: 435/007.200; 435/226.000; 435/069.100; 435/320.100; 435/325.000;  
536/023.200  
IC [7]  
ICM: C12Q001-68  
ICS: G01N033-53; G01N033-567; C07H021-04; C12N009-64; C12P021-02;  
C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 67 OF 137 USPATFULL on STN  
AN 2003:264806 USPATFULL  
TI Protein belonging to the TNF superfamily involved in signal  
transduction, nucleic acids encoding same, and methods of use thereof  
IN Choi, Yongwon, New York, NY, UNITED STATES  
Wong, Brian, New York, NY, UNITED STATES  
Josien, Regis, New York, NY, UNITED STATES  
Steinman, Ralph, Westport, CT, UNITED STATES  
PI US 2003185820 A1 20031002  
AI US 2002-873829 A1 20020509 (9)  
RLI Continuation-in-part of Ser. No. US 1998-210115, filed on 11 Dec 1998,  
ABANDONED Continuation-in-part of Ser. No. US 1998-34099, filed on 3 Mar  
1998, ABANDONED Continuation-in-part of Ser. No. US 1997-989479, filed  
on 12 Dec 1997, ABANDONED  
PRAI US 1997-69589P 19971212 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 4450  
INCL INCLM: 424/143.100

INCLS: 514/044.000; 424/093.210; 530/388.220; 536/023.500; 435/006.000;  
435/069.100; 435/320.100; 530/350.000  
NCL NCLM: 424/143.100  
NCLS: 514/044.000; 424/093.210; 530/388.220; 536/023.500; 435/006.000;  
435/069.100; 435/320.100; 530/350.000  
IC [7]  
ICM: A61K048-00  
ICS: A61K039-395; C12Q001-68; C07H021-04; C12P021-02; C12N005-06;  
C07K014-705; C07K016-28  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 68 OF 137 USPATFULL on STN  
AN 2003:258639 USPATFULL  
TI 207 human secreted proteins  
IN Ni, Jian, Germantown, MD, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Rosen, Craig A., Laytonville, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
Florence, Charles, Rockville, MD, UNITED STATES  
Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
Li, Yi, Sunnyvale, CA, UNITED STATES  
Kyaw, Hla, Frederick, MD, UNITED STATES  
Fischer, Carrie L., Burke, VA, UNITED STATES  
Ferrie, Ann M., Painted Post, NY, UNITED STATES  
Fan, Ping, Potomac, MD, UNITED STATES  
Feng, Ping, Gaithersburg, MD, UNITED STATES  
Endress, Gregory A., Florence, MA, UNITED STATES  
Dillon, Patrick J., Carlsbad, CA, UNITED STATES  
Carter, Kenneth C., North Potomac, MD, UNITED STATES  
Brewer, Laurie A., St. Paul, MN, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
PI US 2003181692 A1 20030925  
AI US 2001-933767 A1 20010822 (9)  
RLI Continuation-in-part of Ser. No. WO 2001-US5614, filed on 21 Feb 2001,  
PENDING Continuation-in-part of Ser. No. US 1998-205258, filed on 4 Dec  
1998, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 32746  
INCL INCLM: 536/023.100  
INCLS: 530/350.000; 435/325.000; 435/183.000; 435/069.100; 435/320.100  
NCL NCLM: 536/023.100  
NCLS: 530/350.000; 435/325.000; 435/183.000; 435/069.100; 435/320.100  
IC [7]  
ICM: C07H021-04  
ICS: C12N009-00; C12P021-02; C12N005-06; C07K014-435  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 69 OF 137 USPATFULL on STN  
AN 2003:257208 USPATFULL  
TI Viral vectors having tissue tropism for T-lymphocytes, B- and mast cells  
IN van Es, Helmuth Hendrikus Gerardus, Hoofddorp, NETHERLANDS  
van Zutphen, Marlijn, Leiderdorp, NETHERLANDS  
Ma, Libin, Oegstgeest, NETHERLANDS  
Havenga, Menzo Jans Emko, Alphen a/d Rijn, NETHERLANDS  
PI US 2003180258 A1 20030925  
AI US 2001-962543 A1 20010925 (9)  
RLI Continuation-in-part of Ser. No. WO 2000-NL325, filed on 16 May 2000,  
UNKNOWN  
PRAI EP 2000-203375 20000925  
US 2001-290403P 20010511 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3432  
INCL INCLM: 424/093.200  
INCLS: 435/456.000

NCL NCLM: 424/093.200  
NCLS: 435/456.000  
IC [7]  
ICM: A61K048-00  
ICS: C12N015-861

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 70 OF 137 USPATFULL on STN  
AN 2003:257205 USPATFULL  
TI IL-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES  
Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul, Hillsborough, CA, UNITED STATES  
Grimaldi, Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin, Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
VanLookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin, Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel, Pacifica, CA, UNITED STATES  
PA Genentech, Inc., South San Francisco, CA, UNITED STATES, 94080 (U.S. corporation)  
PI US 2003180255 A1 20030925  
AI US 2003-410927 A1 20030409 (10)  
RLI Division of Ser. No. US 2001-816744, filed on 22 Mar 2001, GRANTED, Pat. No. US 6579520 Continuation-in-part of Ser. No. WO 2001-US6520, filed on 28 Feb 2001, PENDING Continuation-in-part of Ser. No. US 2000-747259, filed on 20 Dec 2000, GRANTED, Pat. No. US 6569645 Continuation-in-part of Ser. No. WO 2000-US23328, filed on 24 Aug 2000, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 8657  
INCL INCLM: 424/085.200  
INCLS: 435/069.520; 435/320.100; 435/325.000; 530/351.000; 536/023.500  
NCL NCLM: 424/085.200  
NCLS: 435/069.520; 435/320.100; 435/325.000; 530/351.000; 536/023.500  
IC [7]  
ICM: C07K014-54  
ICS: A61K038-20; C07H021-04; C12P021-04; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 71 OF 137 USPATFULL on STN  
AN 2003:251858 USPATFULL  
TI Antibodies to OCIF-binding molecules  
IN Yamaguchi, Kyoji, Saitama, JAPAN  
Yasuda, Hisataka, Tochigi, JAPAN  
Nakagawa, Nobuaki, Tochigi, JAPAN  
Shima, Nobuyuki, Tochigi, JAPAN  
Kinosaki, Masahiko, Tochigi, JAPAN  
Tsuda, Eisuke, Tochigi, JAPAN  
Goto, Masaaki, Tochigi, JAPAN  
Yano, Kazuki, Tochigi, JAPAN  
Tomoyasu, Akihiro, Tochigi, JAPAN  
Kobayashi, Fumie, Tochigi, JAPAN  
Washida, Naohiro, Tochigi, JAPAN  
Takahashi, Ken, Tochigi, JAPAN  
Morinaga, Tomonori, Tochigi, JAPAN  
Higashio, Kanji, Saitama, JAPAN  
PA Sankyo Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)  
PI US 2003176647 A1 20030918  
AI US 2002-167182 A1 20020611 (10)  
RLI Division of Ser. No. US 1998-202455, filed on 15 Dec 1998, PENDING  
PRAI WO 1998-JP1728 19980415  
JP 1997-808 19970415  
JP 1997-151434 19970609  
JP 1997-217897 19970812  
JP 1997-224803 19970821  
JP 1997-332241 19971202  
DT Utility  
FS APPLICATION

LN.CNT 4712  
INCL INCLM: 530/350.000  
INCLS: 530/388.250; 435/069.100; 435/320.100; 435/325.000; 536/023.500  
NCL NCLM: 530/350.000  
NCLS: 530/388.250; 435/069.100; 435/320.100; 435/325.000; 536/023.500  
IC [7]  
ICM: C07K014-725  
ICS: C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 72 OF 137 USPATFULL on STN  
AN 2003:251152 USPATFULL  
TI Serine protease polynucleotides, polypeptides, and antibodies  
IN Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Brookeville, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)  
PI US 2003175938 A1 20030918  
AI US 2002-319519 A1 20021216 (10)  
RLI Continuation-in-part of Ser. No. US 2002-125459, filed on 19 Apr 2002,  
PENDING Continuation of Ser. No. US 2001-946633, filed on 6 Sep 2001,  
ABANDONED Continuation of Ser. No. US 2000-597839, filed on 20 Jun 2000,  
ABANDONED Continuation-in-part of Ser. No. WO 2000-US12207, filed on 5  
May 2000, PENDING Continuation-in-part of Ser. No. US 2000-597842, filed  
on 20 Jun 2000, ABANDONED Continuation-in-part of Ser. No. WO  
2000-US12207, filed on 5 May 2000, PENDING Continuation-in-part of Ser.  
No. US 2000-597843, filed on 20 Jun 2000, ABANDONED Continuation-in-part  
of Ser. No. US 2002-67761, filed on 8 Feb 2002, PENDING Continuation of  
Ser. No. US 2001-804156, filed on 13 Mar 2001, ABANDONED  
PRAI US 1999-133239P 19990507 (60)  
US 1999-135163P 19990520 (60)  
US 1999-147005P 19990803 (60)  
US 1999-152935P 19990909 (60)  
US 1999-162979P 19991101 (60)  
US 1999-133239P 19990507 (60)  
US 1999-135163P 19990520 (60)  
US 1999-147005P 19990803 (60)  
US 1999-152935P 19990909 (60)  
US 1999-162979P 19991101 (60)  
US 1999-147005P 19990803 (60)  
US 1999-152935P 19990909 (60)  
US 1999-162979P 19991101 (60)  
US 2000-189025P 20000314 (60)  
US 2000-189025P 20000314 (60)  
DT Utility  
FS APPLICATION

LN.CNT 13106  
INCL INCLM: 435/226.000  
INCLS: 435/006.000; 435/069.100; 435/320.100; 435/325.000; 536/023.200  
NCL NCLM: 435/226.000  
NCLS: 435/006.000; 435/069.100; 435/320.100; 435/325.000; 536/023.200  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-04; C12N009-64; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 73 OF 137 USPATFULL on STN  
AN 2003:251148 USPATFULL  
TI Protein tyrosine phosphatase polynucleotides, polypeptides, and  
antibodies  
IN Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
PI US 2003175934 A1 20030918  
AI US 2001-935703 A1 20010824 (9)  
RLI Continuation-in-part of Ser. No. WO 2001-US5496, filed on 22 Feb 2001,  
UNKNOWN  
PRAI US 2000-186658P 20000303 (60)  
US 2000-189881P 20000316 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 11501  
INCL INCLM: 435/226.000  
INCLS: 536/023.200; 435/069.100; 435/325.000; 435/320.100  
NCL NCLM: 435/226.000  
NCLS: 536/023.200; 435/069.100; 435/325.000; 435/320.100

IC [7]  
ICM: C12N009-64  
ICS: C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 74 OF 137 USPATFULL on STN  
AN 2003:251072 USPATFULL  
TI 186 human secreted proteins  
IN Ruben, Steven M., Olney, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Carter, Kenneth C., North Potomac, MD, UNITED STATES  
Bednarik, Daniel P., Columbia, MD, UNITED STATES  
Endress, Gregory A., Florence, MA, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Feng, Ping, Germantown, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
Ferrie, Ann M., Painted Post, NY, UNITED STATES  
Duan, D. Roxanne, Bethesda, MD, UNITED STATES  
Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Fischer, Carrie L., Burke, VA, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Brewer, Laurie A., St. Paul, MN, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES  
Li, Yi, Sunnyvale, CA, UNITED STATES  
Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
Kyaw, Hla, Frederick, MD, UNITED STATES

PI US 2003175858 A1 20030918  
AI US 2001-882171 A1 20010618 (9)  
RLI Continuation of Ser. No. US 2001-809391, filed on 16 Mar 2001, PENDING  
Continuation of Ser. No. US 1998-149476, filed on 8 Sep 1998, GRANTED,  
Pat. No. US 6420526 Continuation-in-part of Ser. No. WO 1998-US4493,  
filed on 6 Mar 1998, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 26326  
INCL INCLM: 435/069.100  
INCLS: 435/183.000; 435/320.100; 435/325.000; 435/006.000; 530/350.000;  
536/023.200  
NCL NCLM: 435/069.100  
NCLS: 435/183.000; 435/320.100; 435/325.000; 435/006.000; 530/350.000;  
536/023.200  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-04; C12P021-06; C12N009-00; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 75 OF 137 USPATFULL on STN  
AN 2003:250925 USPATFULL  
TI Molecular antigen array  
IN Renner, Wolfgang A., Zurich, SWITZERLAND  
Bachmann, Martin, Winterthur, SWITZERLAND  
Tissot, Alain, Zurich, SWITZERLAND  
Maurer, Patrick, Winterthur, SWITZERLAND  
Lechner, Franziska, Zurich, SWITZERLAND  
Sebbel, Peter, Zurich, SWITZERLAND  
Piossek, Christine, Winterthur, SWITZERLAND  
Ortmann, Rainer, Saint Louis, SWITZERLAND  
Luond, Rainer, Therwil, SWITZERLAND  
Staufenbiel, Matthias, Lorrach, GERMANY, FEDERAL REPUBLIC OF  
Frey, Peter, Bern, SWITZERLAND  
PA Cytos Biotechnology AG (non-U.S. corporation)  
PI US 2003175711 A1 20030918  
AI US 2002-50898 A1 20020118 (10)  
PRAI US 2001-331045P 20011107 (60)  
US 2001-326998P 20011005 (60)  
US 2001-288549P 20010504 (60)  
US 2001-262379P 20010119 (60)  
DT Utility  
FS APPLICATION

LN.CNT 14673  
INCL INCLM: 435/006.000  
INCLS: 424/201.100; 435/005.000; 435/007.320  
NCL NCLM: 435/006.000  
NCLS: 424/201.100; 435/005.000; 435/007.320  
IC [7]  
ICM: C12Q001-70  
ICS: G01N033-554; G01N033-569; A61K039-295; C12Q001-68  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 76 OF 137 USPATFULL on STN  
AN 2003:250504 USPATFULL  
TI Molecular antigen array  
IN Renner, Wolfgang A., Zurich, SWITZERLAND  
Bachmann, Martin, Winterthur, SWITZERLAND  
Tissot, Alain, Zurich, SWITZERLAND  
Maurer, Patrick, Winterthur, SWITZERLAND  
Lechner, Franziska, Zurich, SWITZERLAND  
Sebbel, Peter, Zurich, SWITZERLAND  
Piossek, Christine, Winterthur, SWITZERLAND  
PA Cytos Biotechnology AG (non-U.S. corporation)  
PI US 2003175290 A1 20030918  
AI US 2002-50902 A1 20020118 (10)  
PRAI US 2001-331045P 20011107 (60)  
US 2001-326998P 20011005 (60)  
US 2001-288549P 20010504 (60)  
US 2001-262379P 20010119 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 15306  
INCL INCLM: 424/186.100  
INCLS: 435/005.000; 435/007.900; 435/287.200; 435/006.000  
NCL NCLM: 424/186.100  
NCLS: 435/005.000; 435/007.900; 435/287.200; 435/006.000  
IC [7]  
ICM: A61K039-12  
ICS: C12Q001-70; G01N033-53; G01N033-542; C12M001-34; C12Q001-68;  
C12M003-00  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 77 OF 137 USPATFULL on STN  
AN 2003:238401 USPATFULL  
TI Dominant negative proteins and methods thereof  
IN Desjarlais, John R., Pasadena, CA, UNITED STATES  
Tansey, Malu Lourdes G., Coppell, TX, UNITED STATES  
Dahiyat, Bassil I., Altadena, CA, UNITED STATES  
PI US 2003166559 A1 20030904  
AI US 2003-338083 A1 20030106 (10)  
PRAI US 2002-345805P 20020104 (60)  
US 2002-373453P 20020417 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2923  
INCL INCLM: 514/012.000  
NCL NCLM: 514/012.000  
IC [7]  
ICM: A61K038-17  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 78 OF 137 USPATFULL on STN  
AN 2003:213828 USPATFULL  
TI Secreted protein, ZTNF9  
IN Fox, Brian A., Seattle, WA, UNITED STATES  
Gross, Jane A., Seattle, WA, UNITED STATES  
PI US 2003148466 A1 20030807  
AI US 2002-273231 A1 20021016 (10)  
PRAI US 2001-329931P 20011017 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2762  
INCL INCLM: 435/069.500  
INCLS: 435/320.100; 435/325.000; 530/351.000; 536/023.500  
NCL NCLM: 435/069.500  
NCLS: 435/320.100; 435/325.000; 530/351.000; 536/023.500  
IC [7]  
ICM: C12P021-02

ICS: C07H021-04; C07K014-525  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 79 OF 137 USPATFULL on STN  
AN 2003:200826 USPATFULL  
TI BiomAP analysis  
IN Plavec, Ivan, Sunnyvale, CA, UNITED STATES  
Berg, Ellen L., Palo Alto, CA, UNITED STATES  
Butcher, Eugene C., Portola Valley, CA, UNITED STATES  
PI US 2003138811 A1 20030724  
AI US 2002-236558 A1 20020905 (10)  
RLI Continuation-in-part of Ser. No. WO 2001-US7190, filed on 6 Mar 2001,  
PENDING  
PRAI US 2000-186976P 20000306 (60)  
US 2000-195672P 20000407 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3389  
INCL INCLM: 435/006.000  
INCLS: 435/455.000; 435/325.000; 702/020.000  
NCL NCLM: 435/006.000  
NCLS: 435/455.000; 435/325.000; 702/020.000  
IC [7]  
ICM: C12Q001-68  
ICS: G06F019-00; G01N033-48; G01N033-50; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 80 OF 137 USPATFULL on STN  
AN 2003:200443 USPATFULL  
TI Human tumor necrosis factor receptor-like proteins TR11, TR11SV1, and  
TR11SV2  
IN Ni, Jian, Germantown, MD, UNITED STATES  
Ruben, Steven M., Brookville, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S.  
corporation)  
PI US 2003138426 A1 20030724  
AI US 2002-283105 A1 20021030 (10)  
RLI Continuation-in-part of Ser. No. US 2001-915593, filed on 27 Jul 2001,  
PENDING Continuation-in-part of Ser. No. US 2000-512363, filed on 23 Feb  
2000, GRANTED, Pat. No. US 6503184 Continuation-in-part of Ser. No. US  
1998-176200, filed on 21 Oct 1998, GRANTED, Pat. No. US 6509173  
PRAI US 2001-330757P 20011030 (60)  
US 2000-221577P 20000728 (60)  
US 1999-144076P 19990716 (60)  
US 1999-134172P 19990513 (60)  
US 1999-121648P 19990224 (60)  
US 1997-63212P 19971021 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 12581  
INCL INCLM: 424/146.100  
INCLS: 435/007.200; 530/388.260  
NCL NCLM: 424/146.100  
NCLS: 435/007.200; 530/388.260  
IC [7]  
ICM: A61K039-395  
ICS: G01N033-53; G01N033-567; C07K016-40  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 81 OF 137 USPATFULL on STN  
AN 2003:187895 USPATFULL  
TI 12 human secreted proteins  
IN Ni, Jian, Germantown, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Kenny, Joseph J., Damascus, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
PI US 2003129685 A1 20030710  
AI US 2001-836353 A1 20010418 (9)  
RLI Continuation-in-part of Ser. No. WO 1999-US25031, filed on 27 Oct 1999,  
UNKNOWN  
PRAI US 1998-105971P 19981028 (60)  
US 2000-198407P 20000419 (60)



DT Utility  
FS APPLICATION  
LN.CNT 31945  
INCL INCLM: 435/069.100  
INCLS: 435/183.000; 435/455.000; 435/325.000; 435/320.100; 536/023.200;  
530/388.100  
NCL NCLM: 435/069.100  
NCLS: 435/183.000; 435/455.000; 435/325.000; 435/320.100; 536/023.200;  
530/388.100  
IC [7]  
ICM: C12P021-02  
ICS: C12N005-06; C07H021-04; C12N009-00; C07K014-435; C07K016-40  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 82 OF 137 USPATFULL on STN  
AN 2003:166521 USPATFULL  
TI Methods of treating or preventing cell, tissue, and organ damage using  
human myeloid progenitor inhibitory factor-1 (MPIF-1)  
IN Li, Haodong, Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Grzegorzewski, Krzysztof J., Gaithersburg, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Patel, Vikram, Germantown, MD, UNITED STATES  
Gentz, Reinder L., Rockville, MD, UNITED STATES  
PA Human Genome Sciences, Inc. (U.S. corporation)  
PI US 2003114379 A1 20030619  
AI US 2002-261950 A1 20021002 (10)  
RLI Division of Ser. No. US 2000-689693, filed on 13 Oct 2000, GRANTED, Pat.  
No. US 6495129 Division of Ser. No. US 2000-571013, filed on 15 May  
2000, PENDING Division of Ser. No. US 1999-334951, filed on 17 Jun 1999,  
GRANTED, Pat. No. US 6451562 Continuation of Ser. No. US 1996-722723,  
filed on 30 Sep 1996, ABANDONED Continuation of Ser. No. US 1996-722719,  
filed on 30 Sep 1996, GRANTED, Pat. No. US 6001606 Continuation-in-part  
of Ser. No. US 1995-465682, filed on 6 Jun 1995, ABANDONED  
Continuation-in-part of Ser. No. US 1995-446881, filed on 5 May 1995,  
ABANDONED Continuation of Ser. No. US 1994-208339, filed on 8 Mar 1994,  
GRANTED, Pat. No. US 5504003  
PRAI US 1999-159362P 19991014 (60)  
US 1999-164059P 19991108 (60)  
US 1999-172063P 19991223 (60)  
US 2000-189048P 20000314 (60)  
US 2000-199142P 20000424 (60)  
US 2000-211458P 20000613 (60)  
US 2000-212658P 20000619 (60)  
US 1996-27299P 19960930 (60)  
US 1996-27300P 19960930 (60)

DT Utility  
FS APPLICATION  
LN.CNT 14465  
INCL INCLM: 514/012.000  
NCL NCLM: 514/012.000  
IC [7]  
ICM: A61K038-17  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 83 OF 137 USPATFULL on STN  
AN 2003:165951 USPATFULL  
TI Function homology screening  
IN Berg, Ellen L., Palo Alto, CA, UNITED STATES  
Butcher, Eugene C., Portola Valley, CA, UNITED STATES  
Melrose, Jennifer, La Honda, CA, UNITED STATES  
PI US 2003113807 A1 20030619  
US 6656695 B2 20031202  
AI US 2001-800605 A1 20010306 (9)  
PRAI US 2000-186976P 20000306 (60)  
US 2000-195672P 20000407 (60)

DT Utility  
FS APPLICATION  
LN.CNT 4315  
INCL INCLM: 435/007.200  
INCLS: 702/019.000  
NCL NCLM: 435/007.210  
NCLS: 435/007.240  
IC [7]  
ICM: G01N033-53  
ICS: G01N033-567; G06F019-00; G01N033-48; G01N033-50

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 84 OF 137 USPATFULL on STN  
AN 2003:152312 USPATFULL  
TI Selective binding agents of osteoprotegerin binding protein  
IN Deshpande, Rajendra V., Thousand Oaks, CA, UNITED STATES  
Hitz, Anna, Newbury Park, CA, UNITED STATES  
Boyle, William James, Malibu, CA, UNITED STATES  
Sullivan, John K., Newbury Park, CA, UNITED STATES  
PA Amgen Inc. (U.S. corporation)  
PI US 2003103978 A1 20030605  
AI US 2001-791153 A1 20010222 (9)  
RLI Continuation-in-part of Ser. No. US 2000-511139, filed on 23 Feb 2000,  
ABANDONED  
DT Utility  
FS APPLICATION  
LN.CNT 5292  
INCL INCLM: 424/152.100  
INCLS: 530/388.100  
NCL NCLM: 424/152.100  
NCLS: 530/388.100  
IC [7]  
ICM: A61K039-395  
ICS: C07K016-44

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 85 OF 137 USPATFULL on STN  
AN 2003:146323 USPATFULL  
TI Human tumor necrosis factor receptor-like protein 8  
IN Ni, Jian, Germantown, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)  
PI US 2003100069 A1 20030529  
AI US 2002-291480 A1 20021112 (10)  
RLI Division of Ser. No. US 2001-768779, filed on 25 Jan 2001, PENDING  
Continuation of Ser. No. US 1998-86582, filed on 29 May 1998, ABANDONED  
PRAI US 1997-48020P 19970529 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3757  
INCL INCLM: 435/069.100  
INCLS: 435/320.100; 435/325.000; 514/012.000; 530/350.000; 536/023.500  
NCL NCLM: 435/069.100  
NCLS: 435/320.100; 435/325.000; 514/012.000; 530/350.000; 536/023.500  
IC [7]  
ICM: A61K038-17  
ICS: C07K014-715; C07H021-04; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 86 OF 137 USPATFULL on STN  
AN 2003:146245 USPATFULL  
TI TALL-1 receptor molecules and uses thereof  
IN Hsu, Hailing, Moorpark, CA, UNITED STATES  
PA Amgen Inc. A Corporation of the State of Delaware (U.S. corporation)  
PI US 2003099990 A1 20030529  
AI US 2002-251947 A1 20020920 (10)  
PRAI US 2001-324238P 20010921 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 4507  
INCL INCLM: 435/006.000  
INCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;  
536/023.500  
NCL NCLM: 435/006.000  
NCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;  
536/023.500  
IC [7]  
ICM: C12Q001-68  
ICS: G01N033-53; G01N033-567; C07H021-04; C12P021-02; C12N005-06;  
C07K014-705

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 87 OF 137 USPATFULL on STN  
AN 2003:145900 USPATFULL  
TI CD40 ligand and CD40 agonist compositions and methods of use  
IN Ahuja, Seema A., San Antonio, TX, UNITED STATES

PA Bonewald, Lynda F., San Antonio, TX, UNITED STATES  
PI Board of Regents, The University of Texas System (U.S. corporation)  
AI US 2003099644 A1 20030529  
AI US 2002-242212 A1 20020912 (10)  
RLI Division of Ser. No. US 2000-645926, filed on 24 Aug 2000, GRANTED, Pat.  
No. US 6482411  
PRAI US 1999-151250P 19990827 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 5263  
INCL INCLM: 424/144.100  
INCLS: 514/012.000  
NCL NCLM: 424/144.100  
NCLS: 514/012.000  
IC [7]  
ICM: A61K039-395  
ICS: A61K038-17  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 88 OF 137 USPATFULL on STN  
AN 2003:120747 USPATFULL  
TI Blood cell deficiency treatment method  
IN Ahlem, Clarence N., San Diego, CA, UNITED STATES  
Reading, Christopher, San Diego, CA, UNITED STATES  
Frincke, James, San Diego, CA, UNITED STATES  
Stickney, Dwight, Granite Bay, CA, UNITED STATES  
Lardy, Henry A., Madison, WI, UNITED STATES  
Marwah, Padma, Middleton, WI, UNITED STATES  
Marwah, Ashok, Middleton, WI, UNITED STATES  
Prendergast, Patrick T., Straffan, IRELAND  
PI US 2003083231 A1 20030501  
AI US 2002-87929 A1 20020301 (10)  
RLI Continuation-in-part of Ser. No. US 2000-675470, filed on 28 Sep 2000,  
PENDING Continuation-in-part of Ser. No. US 2001-820483, filed on 29 Mar  
2001, PENDING Continuation-in-part of Ser. No. US 2000-535675, filed on  
23 Mar 2000, PENDING Continuation-in-part of Ser. No. US 1999-449004,  
filed on 24 Nov 1999, ABANDONED Continuation-in-part of Ser. No. US  
1999-449184, filed on 24 Nov 1999, ABANDONED Continuation-in-part of  
Ser. No. US 1999-449042, filed on 24 Nov 1999, ABANDONED  
Continuation-in-part of Ser. No. US 1999-461026, filed on 15 Dec 1999,  
ABANDONED Continuation-in-part of Ser. No. US 2000-586673, filed on 1  
Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-586672,  
filed on 1 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US  
1999-414905, filed on 8 Oct 1999, ABANDONED  
PRAI US 1999-161453P 19991025 (60)  
US 2001-272624P 20010301 (60)  
US 2001-323016P 20010911 (60)  
US 2001-340045P 20011130 (60)  
US 2001-328738P 20011011 (60)  
US 2001-338015P 20011108 (60)  
US 2001-343523P 20011220 (60)  
US 1999-126056P 19991019 (60)  
US 1999-124087P 19990311 (60)  
US 1998-109923P 19981124 (60)  
US 1998-109924P 19981124 (60)  
US 1998-110127P 19981127 (60)  
US 1998-112206P 19981215 (60)  
US 1999-145823P 19990727 (60)  
US 1999-137745P 19990603 (60)  
US 1999-140028P 19990616 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 19428  
INCL INCLM: 514/002.000  
INCLS: 514/063.000; 514/026.000; 514/044.000; 514/169.000; 514/173.000  
NCL NCLM: 514/002.000  
NCLS: 514/063.000; 514/026.000; 514/044.000; 514/169.000; 514/173.000  
IC [7]  
ICM: A61K038-16  
ICS: A61K048-00; A61K031-704; A61K031-695; A61K031-56; A61K031-58  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 89 OF 137 USPATFULL on STN  
AN 2003:120492 USPATFULL  
TI Anti-inflammatory compounds and uses thereof  
IN May, Michael J., New Haven, CT, UNITED STATES

Ghosh, Sankar, Madison, CT, UNITED STATES  
Findeis, Mark A., Belmont, MA, UNITED STATES  
Phillips, Kathryn, Boston, MA, UNITED STATES  
Hannig, Gerhard, Revere, MA, UNITED STATES

PI US 2003054999 A1 20030320  
AI US 2001-847946 A1 20010502 (9)  
PRAI US 2000-201261P 20000502 (60)

DT Utility  
FS APPLICATION  
LN.CNT 2536

INCL INCLM: 514/015.000  
INCLS: 514/016.000; 514/017.000; 530/326.000; 530/327.000; 530/328.000;  
530/329.000

NCL NCLM: 514/015.000  
NCLS: 514/016.000; 514/017.000; 530/326.000; 530/327.000; 530/328.000;  
530/329.000

IC [7]  
ICM: A61K038-10  
ICS: A61K038-08; C07K007-08; C07K007-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 90 OF 137 USPATFULL on STN

AN 2003:119699 USPATFULL

TI Uses of mammalian cytokine; related reagents

IN Bazan, J. Fernando, Palo Alto, CA, UNITED STATES  
Beebe, Amy M., Half Moon Bay, CA, UNITED STATES  
de Waal Malefyt, Rene, Sunnyvale, CA, UNITED STATES  
Gorman, Daniel M., Newark, CA, UNITED STATES  
Kirk, Peter, Sunnyvale, CA, UNITED STATES  
Kurata, Hirokazu, Palo Alto, CA, UNITED STATES  
Rennick, Donna, Los Altos, CA, UNITED STATES

PI US 2003082184 A1 20030501  
AI US 2002-213288 A1 20020806 (10)  
PRAI US 2001-311027P 20010808 (60)

DT Utility  
FS APPLICATION  
LN.CNT 833

INCL INCLM: 424/146.100

NCL NCLM: 424/146.100

IC [7]  
ICM: A61K039-395

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 91 OF 137 USPATFULL on STN

AN 2003:113664 USPATFULL

TI 47 human secreted proteins

IN Ruben, Steven M., Olney, MD, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Endress, Gregory A., Silver Spring, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Ni, Jian, Rockville, MD, UNITED STATES  
Duan, Roxanne D., Bethesda, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES

PI US 2003078405 A1 20030424  
AI US 2001-895298 A1 20010702 (9)

RLI Continuation of Ser. No. US 2000-591316, filed on 9 Jun 2000, PENDING  
Continuation-in-part of Ser. No. WO 1999-US29950, filed on 16 Dec 1999,  
UNKNOWN

PRAI US 1998-113006P 19981218 (60)  
US 1998-112809P 19981217 (60)

DT Utility  
FS APPLICATION  
LN.CNT 18444

INCL INCLM: 536/023.500  
INCLS: 435/069.100; 435/325.000; 435/320.100; 530/350.000

NCL NCLM: 536/023.500  
NCLS: 435/069.100; 435/325.000; 435/320.100; 530/350.000

IC [7]  
ICM: C07H021-04  
ICS: C07K014-435; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 92 OF 137 USPATFULL on STN  
 AN 2003:93790 USPATFULL  
 TI Secreted protein HCEJQ69  
 IN Ruben, Steven M., Olney, MD, UNITED STATES  
 Ni, Jian, Germantown, MD, UNITED STATES  
 Rosen, Craig A., Laytonsville, MD, UNITED STATES  
 Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
 Young, Paul, Gaithersburg, MD, UNITED STATES  
 Florence, Kimberly, Rockville, MD, UNITED STATES  
 Soppet, Daniel R., Centreville, VA, UNITED STATES  
 Brewer, Laurie A., St. Paul, MN, UNITED STATES  
 Endress, Gregory A., Florence, MA, UNITED STATES  
 Carter, Kenneth C., North Potomac, MD, UNITED STATES  
 Mucenski, Michael, Cincinnati, OH, UNITED STATES  
 Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
 LaFleur, David W., Washington, DC, UNITED STATES  
 Olsen, Henrik, Gaithersburg, MD, UNITED STATES  
 Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
 Moore, Paul A., Germantown, MD, UNITED STATES  
 Komatsoulis, George, Silver Spring, MD, UNITED STATES  
 PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)  
 PI US 2003065151 A1 20030403  
 AI US 2002-115123 A1 20020404 (10)  
 RLI Division of Ser. No. US 1999-461325, filed on 14 Dec 1999, PENDING  
 Continuation-in-part of Ser. No. WO 1999-US13418, filed on 15 Jun 1999, UNKNOWN  
 PRAI US 1998-89507P 19980616 (60)  
 US 1998-89508P 19980616 (60)  
 US 1998-89509P 19980616 (60)  
 US 1998-89510P 19980616 (60)  
 US 1998-90112P 19980622 (60)  
 US 1998-90113P 19980622 (60)  
 DT Utility  
 FS APPLICATION  
 LN.CNT 18779  
 INCL INCLM: 530/388.260  
 NCL NCLM: 530/388.260  
 IC [7]  
 ICM: C07K016-40  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 93 OF 137 USPATFULL on STN  
 AN 2003:93778 USPATFULL  
 TI SECRETED PROTEIN HMMBD35  
 IN ROSEN, CRAIG A., LAYTONSVILLE, MD, UNITED STATES  
 WEI, YING-FEI, BERKELEY, CA, UNITED STATES  
 PI US 2003065139 A1 20030403  
 AI US 1999-397945 A1 19990917 (9)  
 RLI Continuation of Ser. No. WO 1999-US5804, filed on 18 Mar 1999, UNKNOWN  
 DT Utility  
 FS APPLICATION  
 LN.CNT 25027  
 INCL INCLM: 530/350.000  
 INCLS: 435/069.100; 530/300.000  
 NCL NCLM: 530/350.000  
 NCLS: 435/069.100; 530/300.000  
 IC [7]  
 ICM: C07K001-00  
 ICS: A61K038-00; C12P021-06  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 94 OF 137 USPATFULL on STN  
 AN 2003:86817 USPATFULL  
 TI Immune modulation method using steroid compounds  
 IN Ahlem, Clarence N., San Diego, CA, UNITED STATES  
 Frincke, James M., San Diego, CA, UNITED STATES  
 dos Anjos de Carvalho, Luis Daniel, Paio Pires, PORTUGAL  
 Heggie, William, Palmela, PORTUGAL  
 Prendergast, Patrick T., County Kildare, IRELAND  
 Reading, Christopher L., San Diego, CA, UNITED STATES  
 Thadikonda, Krupakar Paul, Gaithersburg, MD, UNITED STATES  
 Vernon, Russell N., Oak Hills, CA, UNITED STATES  
 PI US 2003060425 A1 20030327  
 AI US 2001-820483 A1 20010329 (9)

RLI Continuation-in-part of Ser. No. US 1999-449184, filed on 24 Nov 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-414905, filed on 8 Oct 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-449004, filed on 24 Nov 1999, ABANDONED Continuation-in-part of Ser. No. US 2000-535675, filed on 23 Mar 2000, PENDING Continuation-in-part of Ser. No. US 1999-449042, filed on 24 Nov 1999, ABANDONED Continuation-in-part of Ser. No. US 2000-675470, filed on 28 Sep 2000, PENDING Continuation-in-part of Ser. No. US 2000-586673, filed on 1 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-586672, filed on 1 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 1999-461026, filed on 15 Dec 1999, ABANDONED

PRAI US 1998-109924P 19981124 (60)  
US 1999-140028P 19990616 (60)  
US 1998-109923P 19981124 (60)  
US 1999-126056P 19991019 (60)  
US 1999-124087P 19990311 (60)  
US 1998-110127P 19981127 (60)  
US 1999-161453P 19991025 (60)  
US 1999-145823P 19990727 (60)  
US 1999-137745P 19990603 (60)  
US 1998-112206P 19981215 (60)  
US 2000-257071P 20001220 (60)

DT Utility  
FS APPLICATION

LN.CNT 14708

INCL INCLM: 514/026.000  
INCLS: 514/044.000; 514/063.000; 514/099.000; 514/169.000; 514/173.000

NCL NCLM: 514/026.000  
NCLS: 514/044.000; 514/063.000; 514/099.000; 514/169.000; 514/173.000

IC [7]  
ICM: A61K048-00  
ICS: A61K031-704; A61K031-695; A61K031-665; A61K031-56; A61K031-58

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 95 OF 137 USPATFULL on STN

AN 2003:79303 USPATFULL

TI 12 human secreted proteins

IN Ni, Jian, Germantown, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Kenny, Joseph J., Damascus, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Liu, Ding, Gaithersburg, MD, UNITED STATES  
Crocker, Paul R., Dundee, UNITED KINGDOM

PI US 2003055231 A1 20030320

AI US 2001-984130 A1 20011029 (9)

RLI Continuation-in-part of Ser. No. US 2001-836353, filed on 18 Apr 2001, PENDING Continuation-in-part of ser. No. WO 1999-US25031, filed on 27 Oct 1999, UNKNOWN

PRAI US 2000-243792P 20001030 (60)  
US 2000-198407P 20000419 (60)  
US 1998-105971P 19981028 (60)

DT Utility  
FS APPLICATION

LN.CNT 31982

INCL INCLM: 536/023.100

NCL NCLM: 536/023.100

IC [7]  
ICM: C07H021-02  
ICS: C07H021-04

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 96 OF 137 USPATFULL on STN

AN 2003:78523 USPATFULL

TI 90 human secreted proteins

IN Ruben, Steven M., Olney, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
Ferrie, Ann M., Painted Post, NY, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES

Ni, Jian, Germantown, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Brewer, Laurie A., St. Paul, MN, UNITED STATES  
Janat, Fouad, Westerly, RI, UNITED STATES  
Birse, Charles E., North Potomac, MD, UNITED STATES  
PI US 2003054443 A1 20030320  
AI US 2001-969730 A1 20011004 (9)  
RLI Continuation-in-part of Ser. No. US 2001-774639, filed on 1 Feb 2001,  
PENDING Continuation of Ser. No. US 1999-244112, filed on 4 Feb 1999,  
ABANDONED Continuation-in-part of Ser. No. WO 1998-US16235, filed on 4  
Aug 1998, UNKNOWN  
DT Utility  
FS APPLICATION  
LN.CNT 26693  
INCL INCLM: 435/069.100  
INCLS: 435/006.000; 435/007.100; 435/325.000; 435/320.100; 435/183.000;  
536/023.100; 530/350.000  
NCL NCLM: 435/069.100  
NCLS: 435/006.000; 435/007.100; 435/325.000; 435/320.100; 435/183.000;  
536/023.100; 530/350.000  
IC [7]  
ICM: C12P021-02  
ICS: C12Q001-68; G01N033-53; C07H021-04; C12N009-00; C07K014-435;  
C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 97 OF 137 USPATFULL on STN  
AN 2003:78522 USPATFULL  
TI IL-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES  
Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul J., Hillsborough, CA, UNITED STATES  
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin, Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
VanLookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin K., Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel, Pacifica, CA, UNITED STATES  
PA GENENTECH, INC. (U.S. corporation)  
PI US 2003054442 A1 20030320  
AI US 2001-908827 A1 20010718 (9)  
RLI Continuation of Ser. No. US 1999-311832, filed on 14 May 1999, PENDING  
Continuation of Ser. No. US 1999-380138, filed on 25 Aug 1999, PENDING  
Continuation of Ser. No. US 1999-380142, filed on 25 Aug 1999, ABANDONED  
Continuation of Ser. No. US 2000-644848, filed on 22 Aug 2000, PENDING  
Continuation of Ser. No. US 2000-747259, filed on 20 Dec 2000, PENDING  
Continuation of Ser. No. US 2001-816744, filed on 22 Mar 2001, PENDING  
Continuation of Ser. No. US 2001-854208, filed on 10 May 2001, PENDING  
Continuation of Ser. No. US 2001-854280, filed on 10 May 2001, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 8091  
INCL INCLM: 435/069.100  
INCLS: 435/183.000; 435/320.100; 435/325.000; 530/350.000; 536/023.500  
NCL NCLM: 435/069.100  
NCLS: 435/183.000; 435/320.100; 435/325.000; 530/350.000; 536/023.500  
IC [7]  
ICM: C12P021-02  
ICS: C12N005-06; C07H021-04; C12N009-00  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 98 OF 137 USPATFULL on STN  
AN 2003:74394 USPATFULL  
TI Bone marrow-specific protein  
IN Duan, D. Roxanne, Bethesda, MD, United States  
Ruben, Steven M., Olney, MD, United States  
PA Human Genome Sciences, Inc., Rockville, MD, United States (U.S.  
corporation)  
PI US 6534485 B1 20030318

AI US 2000-482271 20000113 (9)  
PRAI US 1999-116236P 19990115 (60)  
DT Utility  
FS GRANTED  
LN.CNT 8033  
INCL INCLM: 514/044.000  
INCLS: 530/350.000; 435/320.100; 435/325.000; 435/455.000; 424/184.100;  
424/185.100  
NCL NCLM: 514/044.000  
NCLS: 424/184.100; 424/185.100; 435/320.100; 435/325.000; 435/455.000;  
530/350.000  
IC [7]  
ICM: A01N043-04  
ICS: C07K001-00; A61K039-00  
EXF 530/350; 514/44; 435/320.1; 435/325; 435/455; 424/184.1; 424/185.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 99 OF 137 USPATFULL on STN  
AN 2003:72173 USPATFULL  
TI 31 human secreted proteins  
IN Ni, Jian, Rockville, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Birse, Charles E., North Potomac, MD, UNITED STATES  
Carter, Kenneth C., North Potomac, MD, UNITED STATES  
Komatsoulis, George, Silver Spring, MD, UNITED STATES  
PI US 2003050460 A1 20030313  
AI US 2001-948820 A1 20010910 (9)  
RLI Continuation of Ser. No. US 2000-565391, filed on 5 May 2000, PENDING  
Continuation-in-part of Ser. No. WO 1999-US26409, filed on 9 Nov 1999,  
UNKNOWN  
PRAI US 1998-108207P 19981112 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 15657  
INCL INCLM: 536/023.200  
INCLS: 435/183.000; 435/325.000; 435/320.100; 435/069.100  
NCL NCLM: 536/023.200  
NCLS: 435/183.000; 435/325.000; 435/320.100; 435/069.100  
IC [7]  
ICM: C07H021-04  
ICS: C12N009-00; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 100 OF 137 USPATFULL on STN  
AN 2003:72168 USPATFULL  
TI 64 human secreted proteins  
IN Ruben, Steven M., Olney, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Feng, Ping, Gaithersburg, MD, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
Ferrie, Ann M., Tewksbury, MA, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Duan, Roxanne D., Bethesda, MD, UNITED STATES  
Janat, Fouad, Westerly, RI, UNITED STATES  
PI US 2003050455 A1 20030313  
AI US 2001-776724 A1 20010206 (9)  
RLI Continuation-in-part of Ser. No. US 2000-669688, filed on 26 Sep 2000,  
PENDING Continuation of Ser. No. US 1999-229982, filed on 14 Jan 1999,  
PENDING Continuation-in-part of Ser. No. WO 1998-US14613, filed on 15  
Jul 1998, UNKNOWN  
PRAI US 2000-180909P 20000208 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 21934  
INCL INCLM: 536/023.100  
NCL NCLM: 536/023.100  
IC [7]  
ICM: C07H021-02



ICS: C07H021-04  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 101 OF 137 USPATFULL on STN  
AN 2003:72155 USPATFULL  
TI 62 human secreted proteins  
IN Ruben, Steven M., Olney, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Komatsoulis, George, Silver Spring, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Birse, Charles E., North Potomac, MD, UNITED STATES  
Young, Paul, Gaithersburg, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)  
PI US 2003050442 A1 20030313  
AI US 2002-50704 A1 20020118 (10)  
RLI Continuation of Ser. No. US 2000-684524, filed on 10 Oct 2000, PENDING  
Continuation-in-part of Ser. No. WO 2000-US8979, filed on 6 Apr 2000,  
UNKNOWN  
PRAI US 1999-128693P 19990409 (60)  
US 1999-130991P 19990426 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 29145  
INCL INCLM: 530/350.000  
INCLS: 435/183.000; 536/023.200; 435/069.100; 435/325.000; 435/320.100  
NCL NCLM: 530/350.000  
NCLS: 435/183.000; 536/023.200; 435/069.100; 435/325.000; 435/320.100  
IC [7]  
ICM: C07K014-435  
ICS: C12P021-02; C12N005-06; C07H021-04; C12N009-00  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 102 OF 137 USPATFULL on STN  
AN 2003:71333 USPATFULL  
TI 186 human secreted proteins  
IN Ruben, Steven M., Olney, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Carter, Kenneth C., North Potomac, MD, UNITED STATES  
Bednarik, Daniel P., Columbia, MD, UNITED STATES  
Endress, Gregory A., Florence, MA, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Feng, Ping, Gaithersburg, MD, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Greene, John M., Gaithersburg, MD, UNITED STATES  
Ferrie, Ann M., Painted Post, NY, UNITED STATES  
Duan, D. Roxanne, Bethesda, MD, UNITED STATES  
Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Fischer, Carrie L., Burke, VA, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Brewer, Laurie A., St. Paul, MN, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES  
Li, Yi, Sunnyvale, CA, UNITED STATES  
Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
Kyaw, Hla, Frederick, MD, UNITED STATES  
PI US 2003049618 A1 20030313  
AI US 2001-809391 A1 20010316 (9)  
RLI Continuation-in-part of Ser. No. US 1998-149476, filed on 8 Sep 1998,  
GRANTED, Pat. No. US 6420526 Continuation-in-part of Ser. No. WO  
1998-US4493, filed on 6 Mar 1998, UNKNOWN  
DT Utility  
FS APPLICATION  
LN.CNT 26235  
INCL INCLM: 435/006.000

INCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000;  
536/023.100  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/350.000;  
536/023.100  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-04; C12N009-00; C12N005-06; C12P021-02; C07K014-435  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 103 OF 137 USPATFULL on STN  
AN 2003:64730 USPATFULL  
TI Secreted protein HCEJQ69  
IN Ruben, Steven M., Olney, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Brewer, Laurie A., St. Paul, MN, UNITED STATES  
Endress, Gregory A., Florence, MA, UNITED STATES  
Carter, Kenneth C., North Potomac, MD, UNITED STATES  
Mucenski, Michael, Cincinnati, OH, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Komatsoulis, George A., Silver Spring, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S.  
corporation)  
PI US 2003044851 A1 20030306  
US 6627741 B2 20030930  
AI US 2001-12542 A1 20011212 (10)  
RLI Division of Ser. No. US 1999-461325, filed on 14 Dec 1999, PENDING  
Continuation-in-part of Ser. No. WO 1999-US13418, filed on 15 Jun 1999,  
UNKNOWN  
PRAI US 1998-89507P 19980616 (60)  
US 1998-89508P 19980616 (60)  
US 1998-89509P 19980616 (60)  
US 1998-89510P 19980616 (60)  
US 1998-90112P 19980622 (60)  
US 1998-90113P 19980622 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 18831  
INCL INCLM: 435/007.200  
INCLS: 530/387.100; 435/326.000  
NCL NCLM: 530/389.200  
NCLS: 530/387.100; 530/387.300; 530/387.700; 530/387.900; 530/388.100;  
530/388.150; 530/389.100  
IC [7]  
ICM: G01N033-53  
ICS: C07K016-00; C12N005-16; C12N005-06; G01N033-567  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 104 OF 137 USPATFULL on STN  
AN 2003:57895 USPATFULL  
TI Modulators of Bruton's Tyrosine Kinase and Bruton's Tyrosine Kinase  
intermediates and methods for their identification and use in the  
treatment and prevention of osteoporosis and related diseases states  
IN McAtee, C. Patrick, Pennington, NJ, UNITED STATES  
PI US 2003040461 A1 20030227  
AI US 2001-45202 A1 20011022 (10)  
PRAI US 2000-242471P 20001023 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 1166  
INCL INCLM: 514/001.000  
INCLS: 435/015.000  
NCL NCLM: 514/001.000  
NCLS: 435/015.000  
IC [7]  
ICM: A61K031-00  
ICS: C12Q001-48

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 105 OF 137 USPATFULL on STN  
AN 2003:57090 USPATFULL  
TI Modulators of receptors for parathyroid hormone and parathyroid hormone-related protein  
IN Kostenuik, Paul, Newbury Park, CA, UNITED STATES  
Liu, Chuan-Fa, Longmont, CO, UNITED STATES  
Lacey, David Lee, Newbury Park, CA, UNITED STATES  
PA Amgen Inc. (U.S. corporation)  
PI US 2003039654 A1 20030227  
AI US 2001-843221 A1 20010426 (9)  
PRAI US 2001-266673P 20010206 (60)  
US 2000-214860P 20000628 (60)  
US 2000-200053P 20000427 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2877  
INCL INCLM: 424/178.100  
INCLS: 514/012.000; 514/102.000  
NCL NCLM: 424/178.100  
NCLS: 514/012.000; 514/102.000  
IC [7]  
ICM: A61K039-395  
ICS: A61K031-66; A61K038-17

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 106 OF 137 USPATFULL on STN  
AN 2003:51224 USPATFULL  
TI Peptide extended glycosylated polypeptides  
IN Okkels, Jens Sigurd, Vedbaek, DENMARK  
Jensen, Anne Dam, Copenhagen, DENMARK  
van den Hazel, Bart, Copenhagen, DENMARK  
PI US 2003036181 A1 20030220  
AI US 2001-896896 A1 20010629 (9)  
PRAI DK 2000-1027 20000630  
DK 2000-1092 20000714  
WO 2000-DK743 20001229  
WO 2001-DK90 20010209  
US 2000-217497P 20000711 (60)  
US 2000-225558P 20000816 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 4732  
INCL INCLM: 435/184.000  
INCLS: 435/183.000; 530/322.000; 530/388.100; 530/351.000; 530/350.000;  
530/397.000  
NCL NCLM: 435/184.000  
NCLS: 435/183.000; 530/322.000; 530/388.100; 530/351.000; 530/350.000;  
530/397.000  
IC [7]  
ICM: C12N009-99  
ICS: C12N009-00; C07K009-00; C07K016-46; C07K014-705; C07K014-575;  
C07K014-52; C07K014-475

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 107 OF 137 USPATFULL on STN  
AN 2003:30210 USPATFULL  
TI Methods of producing a library and methods of selecting polynucleotides of interest  
IN Zauderer, Maurice, Pittsford, NY, UNITED STATES  
Smith, Ernest S., Ontario, NY, UNITED STATES  
PA University of Rochester (U.S. corporation)  
PI US 2003022157 A1 20030130  
AI US 2001-818991 A1 20010328 (9)  
PRAI US 2000-192586P 20000328 (60)  
US 2000-203343P 20000510 (60)  
US 2001-263226P 20010123 (60)  
US 2001-271426P 20010227 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 10535  
INCL INCLM: 435/005.000  
INCLS: 435/069.100; 435/456.000; 435/235.100  
NCL NCLM: 435/005.000  
NCLS: 435/069.100; 435/456.000; 435/235.100

IC [7]  
ICM: C12Q001-70  
ICS: C12N007-00; C12P021-02; C12N015-863  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 108 OF 137 USPATFULL on STN  
AN 2003:29843 USPATFULL  
TI Use of rank antagonists to treat cancer  
IN Dougall, William C., Seattle, WA, UNITED STATES  
PI US 2003021785 A1 20030130  
AI US 2002-166232 A1 20020605 (10)  
PRAI US 2001-296670P 20010606 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 1870  
INCL INCLM: 424/146.100  
INCLS: 514/012.000; 514/044.000  
NCL NCLM: 424/146.100  
NCLS: 514/012.000; 514/044.000

IC [7]  
ICM: A61K048-00  
ICS: A61K038-17; A61K039-395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 109 OF 137 USPATFULL on STN  
AN 2003:23315 USPATFULL  
TI Therapeutic use of rank antagonists  
IN Dougall, William C., Seattle, WA, UNITED STATES  
Anderson, Dirk M., Seattle, WA, UNITED STATES  
PI US 2003017151 A1 20030123  
AI US 2002-151071 A1 20020517 (10)  
PRAI US 2001-291919P 20010517 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2176  
INCL INCLM: 424/143.100  
INCLS: 514/044.000  
NCL NCLM: 424/143.100  
NCLS: 514/044.000

IC [7]  
ICM: A61K048-00  
ICS: A61K039-395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 110 OF 137 USPATFULL on STN  
AN 2003:11111 USPATFULL  
TI IL-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES  
Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul J., Burlingame, CA, UNITED STATES  
Grimaldi, Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin L., Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
VanLookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin, Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel G., Pacifica, CA, UNITED STATES

PA GENENTECH, INC. (U.S. corporation)  
PI US 2003008815 A1 20030109  
US 6569645 B2 20030527  
AI US 2000-747259 A1 20001220 (9)

RLI Continuation-in-part of Ser. No. US 1999-311832, filed on 14 May 1999,  
PENDING Continuation-in-part of Ser. No. US 2000-644848, filed on 22 Aug  
2000, PENDING Continuation-in-part of Ser. No. WO 2000-US4341, filed on  
18 Feb 2000, UNKNOWN Continuation-in-part of Ser. No. WO 2000-US23328,  
filed on 24 Aug 2000, UNKNOWN Continuation-in-part of Ser. No. WO  
2000-US32678, filed on 1 Dec 2000, UNKNOWN Continuation-in-part of Ser.  
No. WO 1999-US31274, filed on 30 Dec 1999, UNKNOWN Continuation-in-part  
of ser.No. WO 2000-US7532, filed on 21 Mar 2000, UNKNOWN  
Continuation-in-part of Ser. No. WO 2000-US5841, filed on 2 Mar 2000,

UNKNOWN Continuation-in-part of Ser. No. WO 2000-US15264, filed on 2 Jun 2000, UNKNOWN Continuation-in-part of Ser. No. WO 2000-US30873, filed on 10 Nov 2000, UNKNOWN

PRAI US 2000-253646P 20001128 (60)  
US 1999-172096P 19991223 (60)  
US 2000-175481P 20000111 (60)  
US 2000-191007P 20000321 (60)  
US 2000-213087P 20000620 (60)  
US 2000-242837P 20001024 (60)

DT Utility  
FS APPLICATION  
LN.CNT 8685

INCL INCLM: 514/012.000  
INCLS: 435/183.000; 530/350.000; 536/023.100; 435/069.100; 435/325.000;  
435/320.100  
NCL NCLM: 435/069.520  
NCLS: 435/006.000; 435/252.300; 435/320.100; 435/325.000; 530/351.000;  
536/023.500

IC [7]  
ICM: A61K038-17  
ICS: C07H021-04; C12N009-00; C07K014-435; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 111 OF 137 USPATFULL on STN  
AN 2003:3511 USPATFULL  
TI 1L-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES  
Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul, Burlingame, CA, UNITED STATES  
Grimaldi, Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin, Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
VanLookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin, Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel, Pacifica, CA, UNITED STATES

PA GENENTECH, INC. (U.S. corporation)

PI US 2003003546 A1 20030102  
US 6579520 B2 20030617  
AI US 2001-816744 A1 20010322 (9)

RLI Continuation-in-part of Ser. No. US 1999-311832, filed on 14 May 1999,  
PENDING

DT Utility  
FS APPLICATION  
LN.CNT 7774

INCL INCLM: 435/069.500  
INCLS: 435/325.000; 435/320.100; 435/006.000; 530/351.000; 424/085.200;  
536/023.500  
NCL NCLM: 424/085.200  
NCLS: 435/069.700; 530/351.000; 530/387.300

IC [7]  
ICM: C12Q001-68  
ICS: C12P021-02; C07H021-04; C12N005-06; A61K038-20  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 112 OF 137 USPATFULL on STN  
AN 2002:343975 USPATFULL  
TI Serine protease polynucleotides, polypeptides, and antibodies  
IN Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)

PI US 2002197701 A1 20021226  
AI US 2002-67761 A1 20020208 (10)

RLI Continuation of Ser. No. US 2001-804156, filed on 13 Mar 2001, PENDING

PRAI US 2000-189025P 20000314 (60)

DT Utility  
FS APPLICATION  
LN.CNT 13077

INCL INCLM: 435/226.000  
INCLS: 435/069.100; 435/320.100; 435/325.000; 536/023.200  
NCL NCLM: 435/226.000  
NCLS: 435/069.100; 435/320.100; 435/325.000; 536/023.200  
IC [7]  
ICM: C12N009-64  
ICS: C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 113 OF 137 USPATFULL on STN  
AN 2002:337317 USPATFULL  
TI Methods of identifying regulator molecules  
IN Zauderer, Maurice, Pittsford, NY, UNITED STATES  
Smith, Ernest S., Ontario, NY, UNITED STATES  
PA The University of Rochester, Rochester, NY (U.S. corporation)  
PI US 2002192675 A1 20021219  
AI US 2002-61395 A1 20020204 (10)  
PRAI US 2001-265589P 20010202 (60)  
US 2001-265880P 20010205 (60)  
US 2001-271423P 20010227 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 6369  
INCL INCLM: 435/006.000  
INCLS: 435/007.100; 435/007.200; 435/455.000  
NCL NCLM: 435/006.000  
NCLS: 435/007.100; 435/007.200; 435/455.000  
IC [7]  
ICM: C12Q001-68  
ICS: G01N033-53; G01N033-567; C12N015-87  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 114 OF 137 USPATFULL on STN  
AN 2002:332463 USPATFULL  
TI Methods of inhibiting hematopoietic stem cells using human myeloid  
progenitor inhibitory factor-1 (MPIF-1) (Ckbeta-8/MIP-3)  
IN Li, Haodong, Gaithersburg, MD, United States  
Ruben, Steven M., Olney, MD, United States  
PA Human Genome Sciences, Inc., Rockville, MD, United States (U.S.  
corporation)  
PI US 6495129 B1 20021217  
AI US 2000-689693 20001013 (9)  
RLI Continuation of Ser. No. US 2000-571013, filed on 15 May 2000  
Continuation-in-part of Ser. No. US 1999-334951, filed on 17 Jun 1999  
Continuation of Ser. No. US 1997-941020, filed on 30 Sep 1997, now  
abandoned Continuation-in-part of Ser. No. US 1996-722723, filed on 30  
Sep 1996, now abandoned Continuation-in-part of Ser. No. US 1996-722719,  
filed on 30 Sep 1996, now patented, Pat. No. US 6001606  
Continuation-in-part of Ser. No. US 1995-468775, filed on 6 Jun 1995,  
now abandoned Continuation-in-part of Ser. No. US 1995-465682, filed on  
6 Jun 1995, now abandoned Continuation-in-part of Ser. No. US  
1995-446881, filed on 5 May 1995, now abandoned Continuation-in-part of  
Ser. No. US 468775 Continuation-in-part of Ser. No. US 465682  
Continuation-in-part of Ser. No. US 446881 Continuation of Ser. No. US  
446881 Continuation-in-part of Ser. No. US 1994-208339, filed on 8 Mar  
1994, now patented, Pat. No. US 5504003 Continuation of Ser. No. US  
446881 Continuation-in-part of Ser. No. US 208339 Continuation-in-part  
of Ser. No. US 208339  
PRAI US 2000-212658P 20000619 (60)  
US 2000-211458P 20000613 (60)  
US 2000-199142P 20000424 (60)  
US 2000-189048P 20000314 (60)  
US 1999-172063P 19991223 (60)  
US 1999-164059P 19991108 (60)  
US 1999-159362P 19991014 (60)  
DT Utility  
FS GRANTED  
LN.CNT 14198  
INCL INCLM: 424/085.100  
INCLS: 424/885.000; 514/002.000; 514/008.000; 514/012.000  
NCL NCLM: 424/085.100  
NCLS: 514/002.000; 514/008.000; 514/012.000  
IC [7]  
ICM: A61K038-19  
EXF 424/85.1; 424/885; 514/2; 514/8; 514/12  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 115 OF 137 USPATFULL on STN  
AN 2002:322509 USPATFULL  
TI IL-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES  
Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
French, Dorothy, Redwood City, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul J., Hillsborough, CA, UNITED STATES  
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin L., Belmont, CA, UNITED STATES  
Hillan, Kenneth J., San Francisco, CA, UNITED STATES  
Hymowitz, Sarah G., San Francisco, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Pan, James, Zitobicoke, CANADA  
Starovasnik, Melissa A., San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
Van Lookeren, Menno, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin K., Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel G., Pacifica, CA, UNITED STATES  
PA GENENTECH, INC. (U.S. corporation)  
PI US 2002182673 A1 20021205  
AI US 2001-157 A1 20011030 (10)  
RLI Continuation-in-part of Ser. No. US 2001-931836, filed on 16 Aug 2001,  
PENDING Continuation-in-part of Ser. No. US 2001-929404, filed on 13 Aug  
2001, PENDING Continuation-in-part of Ser. No. US 2001-918585, filed on  
30 Jul 2001, PENDING Continuation-in-part of Ser. No. US 2001-908827,  
filed on 18 Jul 2001, PENDING Continuation-in-part of Ser. No. US  
2001-874503, filed on 5 Jun 2001, PENDING Continuation-in-part of Ser.  
No. US 2001-854280, filed on 10 May 2001, PENDING Continuation-in-part  
of Ser. No. US 2001-854208, filed on 10 May 2001, PENDING  
Continuation-in-part of Ser. No. US 2001-816744, filed on 22 Mar 2001,  
PENDING Continuation-in-part of Ser. No. US 2000-747259, filed on 20 Dec  
2000, PENDING Continuation-in-part of Ser. No. US 2000-644848, filed on  
22 Aug 2000, PENDING Continuation-in-part of Ser. No. US 1999-380142,  
filed on 25 Aug 1999, ABANDONED Continuation-in-part of Ser. No. US  
1999-380138, filed on 25 Aug 1999, PENDING Continuation-in-part of Ser.  
No. US 1999-311832, filed on 14 May 1999, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 8889  
INCL INCLM: 435/069.100  
INCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500  
NCL NCLM: 435/069.100  
NCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500  
IC [7]  
ICM: C07K014-715  
ICS: C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 116 OF 137 USPATFULL on STN  
AN 2002:314711 USPATFULL  
TI IL-17 homologous polypeptides and therapeutic uses thereof  
IN Chen, Jian, Princeton, NJ, UNITED STATES  
Filvaroff, Ellen, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul J., Burlingame, CA, UNITED STATES  
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin, Belmont, CA, UNITED STATES  
Li, Hanzhong, San Mateo, CA, UNITED STATES  
Hillan, Kenneth, San Francisco, CA, UNITED STATES  
Hymowitz, Sarah G., San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
Starovasnik, Melissa A., San Francisco, CA, UNITED STATES  
Lookeren, Menno Van, San Francisco, CA, UNITED STATES  
Vandlen, Richard, Hillsborough, CA, UNITED STATES  
Watanabe, Colin, Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Yansura, Daniel G., Pacifica, CA, UNITED STATES  
PA GENENTECH, INC. (U.S. corporation)

PI US 2002177188 A1 20021128  
AI US 2001-874503 A1 20010605 (9)  
DT Utility  
FS APPLICATION  
LN.CNT 8549  
INCL INCLM: 435/069.100  
INCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500  
NCL NCLM: 435/069.100  
NCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500  
IC [7]  
ICM: C07K014-715  
ICS: C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 117 OF 137 USPATFULL on STN  
AN 2002:303718 USPATFULL  
TI Methods of reducing bone loss with CD40 ligand  
IN Ahuja, Seema A., San Antonio, TX, United States  
Bonewald, Lynda F., San Antonio, TX, United States  
PA Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)  
PI US 6482411 B1 20021119  
AI US 2000-645926 20000824 (9)  
PRAI US 1999-151250P 19990827 (60)  
DT Utility  
FS GRANTED  
LN.CNT 5120  
INCL INCLM: 424/185.100  
INCLS: 424/085.100; 424/184.100; 424/192.100; 424/178.100; 514/002.000; 514/008.000; 514/012.000; 514/885.000; 530/350.000; 530/351.000  
NCL NCLM: 424/185.100  
NCLS: 424/085.100; 424/178.100; 424/184.100; 424/192.100; 514/002.000; 514/008.000; 514/012.000; 514/885.000; 530/350.000; 530/351.000  
IC [7]  
ICM: A61K038-17  
ICS: A61K038-19; C07K014-435; C07K014-52  
EXF 424/85.1; 424/185.1; 424/278.1; 514/2; 514/8; 530/350  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 118 OF 137 USPATFULL on STN  
AN 2002:291062 USPATFULL  
TI Secreted protein HNFGEF20  
IN Komatsoulis, George, Silver Spring, MD, United States  
Rosen, Craig A., Laytonsville, MD, United States  
Ruben, Steven M., Olney, MD, United States  
Duan, Roxanne D., Bethesda, MD, United States  
Moore, Paul A., Germantown, MD, United States  
Shi, Yanggu, Gaithersburg, MD, United States  
LaFleur, David W., Washington, DC, United States  
Wei, Ying-Fei, Berkeley, CA, United States  
Ni, Jian, Rockville, MD, United States  
Florence, Kimberly A., Rockville, MD, United States  
Young, Paul, Gaithersburg, MD, United States  
Brewer, Laurie A., St. Paul, MN, United States  
Soppet, Daniel R., Centreville, VA, United States  
Endress, Gregory A., Potomac, MD, United States  
Ebner, Reinhard, Gaithersburg, MD, United States  
Olsen, Henrik, Gaithersburg, MD, United States  
Mucenski, Michael, Cincinnati, OH, United States  
PA Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)  
PI US 6476195 B1 20021105  
AI US 2000-489847 20000124 (9)  
RLI Continuation-in-part of Ser. No. WO 1999-US17130, filed on 29 Jul 1999  
PRAI US 1998-94657P 19980730 (60)  
US 1998-95486P 19980805 (60)  
US 1998-96319P 19980812 (60)  
US 1998-95454P 19980806 (60)  
US 1998-95455P 19980806 (60)  
DT Utility  
FS GRANTED  
LN.CNT 20107  
INCL INCLM: 530/350.000  
INCLS: 530/350.000; 435/006.000; 435/007.100; 536/023.100  
NCL NCLM: 530/350.000  
NCLS: 435/006.000; 435/007.100; 536/023.100



IC [7]  
ICM: C07K005-00  
ICS: C07K014-00; C12Q001-68; C07H021-04  
EXF 536/23.1; 435/6; 435/7.1; 530/350; 530/300  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 119 OF 137 USPTAFULL on STN  
AN 2002:290742 USPTAFULL  
TI 94 Human Secreted Proteins  
IN Ruben, Steven M., Olney, MD, United States  
Ni, Jian, Rockville, MD, United States  
Rosen, Craig A., Laytonsville, MD, United States  
Wei, Ying-Fei, Berkeley, CA, United States  
Young, Paul, Gaithersburg, MD, United States  
Florence, Kimberly, Rockville, MD, United States  
Soppet, Daniel R., Centreville, VA, United States  
Brewer, Laurie A., St. Paul, MN, United States  
Endress, Gregory A., Potomac, MD, United States  
Carter, Kenneth C., Potomac, MD, United States  
Mucenski, Michael, Cincinnati, OH, United States  
Ebner, Reinhard, Gaithersburg, MD, United States  
Lafleur, David W., Washington, DC, United States  
Olsen, Henrik, Gaithersburg, MD, United States  
Shi, Yanggu, Gaithersburg, MD, United States  
Moore, Paul A., Germantown, MD, United States  
Komatsoulis, George, Silver Spring, MD, United States  
PA Human Genome Sciences, Inc., Rockville, MD, United States (U.S.  
corporation)  
PI US 6475753 B1 20021105  
AI US 1999-461325 19991214 (9)  
RLI Continuation-in-part of Ser. No. WO 1999-US13418, filed on 15 Jun 1999  
PRAI US 1998-89507P 19980616 (60)  
US 1998-89508P 19980616 (60)  
US 1998-89509P 19980616 (60)  
US 1998-89510P 19980616 (60)  
US 1998-90112P 19980622 (60)  
US 1998-90113P 19980622 (60)  
DT Utility  
FS GRANTED  
LN.CNT 18031  
INCL INCLM: 435/069.100  
INCLS: 435/069.400; 435/071.100; 435/252.300; 435/032.500; 435/320.100;  
435/471.000; 536/023.500; 530/350.000  
NCL NCLM: 435/069.100  
NCLS: 435/069.400; 435/071.100; 435/252.300; 435/320.100; 435/325.000;  
435/471.000; 530/350.000; 536/023.500

IC [7]  
ICM: C12P021-02  
ICS: C12N015-12; C12N005-10; C07K014-47  
EXF 435/69.1; 435/69.4; 435/71.1; 435/91.1; 435/252.3; 435/325; 435/320.1;  
435/471; 536/23.5; 530/350  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 120 OF 137 USPTAFULL on STN  
AN 2002:287553 USPTAFULL  
TI Receptor from TNF family  
IN Boyle, William J., Moorpark, CA, UNITED STATES  
Hsu, Hailing, Moorpark, CA, UNITED STATES  
PI US 2002160416 A1 20021031  
AI US 2001-779050 A1 20010212 (9)  
PRAI US 2000-181800P 20000211 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2856  
INCL INCLM: 435/007.100  
INCLS: 530/389.100; 530/395.000; 536/053.000  
NCL NCLM: 435/007.100  
NCLS: 530/389.100; 530/395.000; 536/053.000

IC [7]  
ICM: G01N033-53  
ICS: C07K016-46; C08B037-00  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 121 OF 137 USPTAFULL on STN  
AN 2002:287139 USPTAFULL  
TI Methods of treating multiple myeloma and myeloma-induced boneresorption

using integrin antagonists  
IN Mundy, Gregory R., San Antonio, TX, UNITED STATES  
Yoneda, Toshiyuki, San Antonio, TX, UNITED STATES  
PA Board of Regents, University of Texas System (U.S. corporation)  
PI US 2002159998 A1 20021031  
AI US 2002-86217 A1 20020221 (10)  
RLI Continuation-in-part of Ser. No. US 2001-943659, filed on 31 Aug 2001,  
PENDING Continuation-in-part of Ser. No. US 2001-805840, filed on 13 Mar  
2001, PENDING Continuation of Ser. No. WO 1999-US21170, filed on 13 Sep  
1999, UNKNOWN  
PRAI US 1998-100182P 19980914 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2463  
INCL INCLM: 424/143.100  
INCLS: 424/141.100  
NCL NCLM: 424/143.100  
NCLS: 424/141.100  
IC [7]  
ICM: A61K039-395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 122 OF 137 USPATFULL on STN  
AN 2002:280555 USPATFULL  
TI Anti-inflammatory compounds and uses thereof  
IN May, Michael J., New Haven, CT, UNITED STATES  
Ghosh, Sankar, Madison, CT, UNITED STATES  
PI US 2002156000 A1 20021024  
AI US 2001-847940 A1 20010502 (9)  
RLI Continuation-in-part of Ser. No. US 2000-643260, filed on 22 Aug 2000,  
PENDING  
PRAI US 2000-201261P 20000502 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2360  
INCL INCLM: 514/012.000  
NCL NCLM: 514/012.000  
IC [7]  
ICM: A61K038-16  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 123 OF 137 USPATFULL on STN  
AN 2002:280103 USPATFULL  
TI Calcium channel polynucleotides, polypeptides, and antibodies  
IN Ruben, Steven M., Olney, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
PA Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)  
PI US 2002155539 A1 20021024  
AI US 2002-50786 A1 20020118 (10)  
RLI Continuation of Ser. No. US 2001-774028, filed on 31 Jan 2001, PENDING  
Continuation-in-part of Ser. No. WO 2000-US20392, filed on 27 Jul 2000,  
UNKNOWN  
PRAI US 1999-145958P 19990728 (60)  
US 1999-149446P 19990818 (60)  
US 2000-189064P 20000314 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 11310  
INCL INCLM: 435/069.100  
INCLS: 435/183.000; 435/325.000; 435/320.100; 435/007.100; 530/350.000;  
536/023.200  
NCL NCLM: 435/069.100  
NCLS: 435/183.000; 435/325.000; 435/320.100; 435/007.100; 530/350.000;  
536/023.200  
IC [7]  
ICM: G01N033-53  
ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06; C07K014-435  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 124 OF 137 USPATFULL on STN  
AN 2002:266261 USPATFULL  
TI Nucleic acids, proteins, and antibodies  
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Barash, Steven C., Rockville, MD, UNITED STATES

PI US 2002147140 A1 20021010  
AI US 2001-764877 A1 20010117 (9)  
DT Utility  
FS APPLICATION  
LN.CNT 33677  
INCL INCLM: 514/012.000  
INCLS: 530/350.000; 536/023.100; 435/006.000; 435/069.100; 435/183.000;  
435/325.000; 435/320.100  
NCL NCLM: 514/012.000  
NCLS: 530/350.000; 536/023.100; 435/006.000; 435/069.100; 435/183.000;  
435/325.000; 435/320.100  
IC [7]  
ICM: A61K038-17  
ICS: C12Q001-68; C07H021-04; C12N005-06; C12P021-02; C07K014-435  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 125 OF 137 USPATFULL on STN  
AN 2002:235448 USPATFULL  
TI Human tumor necrosis factor receptor-like protein 8  
IN Ni, Jian, Rockville, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
PI US 2002127637 A1 20020912  
AI US 2001-768779 A1 20010125 (9)  
RLI Continuation of Ser. No. US 1998-86582, filed on 29 May 1998, ABANDONED  
PRAI US 1997-48020P 19970529 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3860  
INCL INCLM: 435/069.100  
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500  
NCL NCLM: 435/069.100  
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500  
IC [7]  
ICM: C07K014-715  
ICS: C12P021-02; C12N005-06; C07H021-04  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 126 OF 137 USPATFULL on STN  
AN 2002:188219 USPATFULL  
TI Bone remodeling genes  
IN Jones, Karen A., Essex, UNITED KINGDOM  
Volkmoth, Wayne, Calabasas, CA, United States  
Walker, Michael G., Sunnyvale, CA, United States  
PA Incyte Genomics, Inc, Palo Alto, CA, United States (U.S. corporation)  
PI US 6426186 B1 20020730  
AI US 2000-484970 20000118 (9)  
DT Utility  
FS GRANTED  
LN.CNT 9385  
INCL INCLM: 435/006.000  
INCLS: 435/069.100; 435/320.100; 435/440.000; 536/023.100; 536/024.100;  
514/044.000  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/320.100; 435/440.000; 514/044.000; 536/023.100;  
536/024.100  
IC [7]  
ICM: C12Q001-68  
ICS: C07H021-02; C07H021-04  
EXF 435/6; 435/440; 435/320.1; 435/69.1; 536/23.1; 536/24.1; 514/44  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 127 OF 137 USPATFULL on STN  
AN 2002:164405 USPATFULL  
TI Methods and compositions of matter concerning APRIL/G70, BCMA,  
BLYS/AGP-3, and TACI  
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES  
Yu, Gang, Thousand Oaks, CA, UNITED STATES  
PI US 2002086018 A1 20020704  
AI US 2001-855158 A1 20010514 (9)  
PRAI US 2000-204039P 20000512 (60)  
US 2000-214591P 20000627 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 1973  
INCL INCLM: 424/146.100  
INCLS: 424/153.100

NCL NCLM: 424/146.100  
NCLS: 424/153.100  
IC [7]  
ICM: A61K039-395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 128 OF 137 USPATFULL on STN  
AN 2002:157048 USPATFULL  
TI APOPTOSIS INDUCING MOLECULE II AND METHODS OF USE  
IN EBNER, REINHARD, GAITHERSBURG, MD, UNITED STATES  
YU, GUO-LIANG, BERKELEY, CA, UNITED STATES  
RUBEN, STEVEN M., OLNEY, MD, UNITED STATES  
ZHANG, JUN, BETHESDA, MD, UNITED STATES  
ULLRICH, STEPHEN, ROCKVILLE, MD, UNITED STATES  
ZHAI, YIFAN, GAITHERSBURG, MD, UNITED STATES  
PA Human Genome Sciences (U.S. corporation)  
PI US 2002081647 A1 20020627  
US 6495520 B2 20021217  
AI US 1999-252656 A1 19990219 (9)  
RLI Continuation-in-part of Ser. No. US 1998-27287, filed on 20 Feb 1998,  
PENDING Continuation-in-part of Ser. No. US 1998-3886, filed on 7 Jan  
1998, ABANDONED Continuation-in-part of Ser. No. US 1997-822953, filed  
on 21 Mar 1997, ABANDONED  
PRAI US 1998-75409P 19980220 (60)  
US 1996-13923P 19960322 (60)  
US 1996-30157P 19961031 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 6195  
INCL INCLM: 435/069.100  
INCLS: 530/350.000; 530/399.000; 514/012.000; 536/023.500  
NCL NCLM: 514/012.000  
NCLS: 530/300.000; 530/324.000; 530/350.000  
IC [7]  
ICM: A61K038-18  
ICS: C12P021-06; C07H021-04; C07K014-00; G01N033-53  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 129 OF 137 USPATFULL on STN  
AN 2002:156701 USPATFULL  
TI Methods and compositions of matter concerning APRIL/G70, BCMA,  
BLYS/AGP-3 and TACI  
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES  
Yu, Gang, Thousand Oaks, CA, UNITED STATES  
PI US 2002081296 A1 20020627  
AI US 2001-854864 A1 20010514 (9)  
PRAI US 2000-204039P 20000512 (60)  
US 2000-214591P 20000627 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2383  
INCL INCLM: 424/144.100  
INCLS: 424/155.100  
NCL NCLM: 424/144.100  
NCLS: 424/155.100  
IC [7]  
ICM: A61K039-395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 130 OF 137 USPATFULL on STN  
AN 2002:149306 USPATFULL  
TI ADAM polynucleotides, polypeptides, and antibodies  
IN Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
PI US 2002077465 A1 20020620  
AI US 2001-945676 A1 20010905 (9)  
RLI Continuation-in-part of Ser. No. WO 2001-US5497, filed on 22 Feb 2001,  
UNKNOWN  
PRAI US 2000-187937P 20000303 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 12287  
INCL INCLM: 536/023.200  
INCLS: 435/320.100; 435/325.000; 435/069.100; 435/183.000  
NCL NCLM: 536/023.200  
NCLS: 435/320.100; 435/325.000; 435/069.100; 435/183.000

IC [7]  
ICM: C07H021-04  
ICS: C12N009-00; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 131 OF 137 USPATFULL on STN  
AN 2002:133469 USPATFULL  
TI Serine protease polynucleotides, polypeptides, and antibodies  
IN Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
PI US 2002068320 A1 20020606  
AI US 2001-804156 A1 20010313 (9)  
PRAI US 2000-189025P 20000314 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 13119  
INCL INCLM: 435/069.100  
INCLS: 435/226.000; 435/325.000; 435/006.000; 435/007.100; 530/388.100;  
536/023.200  
NCL NCLM: 435/069.100  
NCLS: 435/226.000; 435/325.000; 435/006.000; 435/007.100; 530/388.100;  
536/023.200

IC [7]  
ICM: C12Q001-68  
ICS: G01N033-53; C12P021-02; C12N005-06; C07H021-04; C12N009-64  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 132 OF 137 USPATFULL on STN  
AN 2002:126332 USPATFULL  
TI Human protein tyrosine phosphatase polynucleotides, polypeptides, and  
antibodies  
IN Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
PI US 2002064844 A1 20020530  
AI US 2001-906779 A1 20010718 (9)  
RLI Continuation-in-part of Ser. No. WO 2001-US1563, filed on 17 Jan 2001,  
UNKNOWN  
PRAI US 2000-176306P 20000118 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 12129  
INCL INCLM: 435/183.000  
INCLS: 435/006.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200  
NCL NCLM: 435/183.000  
NCLS: 435/006.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200  
IC [7]  
ICM: C12N009-00  
ICS: C12Q001-68; C07H021-04; C12P021-02; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 133 OF 137 USPATFULL on STN  
AN 2002:78221 USPATFULL  
TI Methods of treating multiple myeloma and myeloma-induced bone resorption  
using integrin antagonists  
IN Mundy, Gregory R., San Antonio, TX, UNITED STATES  
Yoneda, Toshiyuki, San Antonio, TX, UNITED STATES  
PA The Board of Regents, University of Texas System (U.S. corporation)  
PI US 2002041874 A1 20020411  
AI US 2001-943659 A1 20010831 (9)  
RLI Continuation-in-part of Ser. No. US 2001-805840, filed on 13 Mar 2001,  
PENDING Continuation of Ser. No. WO 1999-US21170, filed on 13 Sep 1999,  
UNKNOWN  
PRAI US 1998-100182P 19980914 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 2210  
INCL INCLM: 424/131.100  
INCLS: 424/133.100; 424/141.100; 424/178.100  
NCL NCLM: 424/131.100  
NCLS: 424/133.100; 424/141.100; 424/178.100  
IC [7]  
ICM: A61K039-395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 134 OF 137 USPATFULL on STN

AN 2002:72443 USPATFULL  
TI Method for the high level expression of active lymphotoxin-beta receptor  
immunoglobulin chimeric proteins and their purification  
IN Browning, Jeffrey, Brookline, MA, UNITED STATES  
Miatkowski, Konrad, North Reading, MA, UNITED STATES  
Meier, Werner, Burlington, MA, UNITED STATES  
PI US 2002039580 A1 20020404  
AI US 2001-767370 A1 20010123 (9)  
RLI Continuation of Ser. No. WO 1999-US29873, filed on 16 Dec 1999, UNKNOWN  
PRAI US 1998-112752P 19981217 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 1163  
INCL INCLM: 424/178.100  
INCLS: 530/389.100; 435/069.700; 435/328.000; 530/351.000  
NCL NCLM: 424/178.100  
NCLS: 530/389.100; 435/069.700; 435/328.000; 530/351.000  
IC [7]  
ICM: A61K039-395  
ICS: C12P021-04; C07K016-46  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 135 OF 137 USPATFULL on STN  
AN 2002:37312 USPATFULL  
TI Methods of treating multiple myeloma and myeloma-induced bone resorption  
using integrin antagonists  
IN Mundy, Gregory R., San Antonio, TX, UNITED STATES  
Yoneda, Toshiyuki, San Antonio, TX, UNITED STATES  
PI US 2002022028 A1 20020221  
AI US 2001-805840 A1 20010313 (9)  
RLI Continuation of Ser. No. WO 1999-US21170, filed on 13 Sep 1999, UNKNOWN  
PRAI US 1998-100182P 19980914 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 1554  
INCL INCLM: 424/142.100  
INCLS: 424/133.100  
NCL NCLM: 424/142.100  
NCLS: 424/133.100  
IC [7]  
ICM: A61K039-395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 136 OF 137 USPATFULL on STN  
AN 2002:8044 USPATFULL  
TI Methods for abrogating a cellular immune response  
IN Albert, Matthew L., New York, NY, UNITED STATES  
Jegathesan, Mithila, New York, NY, UNITED STATES  
Darnell, Robert B., Pelham, NY, UNITED STATES  
PI US 2002004041 A1 20020110  
AI US 2001-804584 A1 20010312 (9)  
RLI Continuation-in-part of Ser. No. US 2000-545958, filed on 10 Apr 2000,  
PENDING Continuation-in-part of Ser. No. US 1999-251896, filed on 19 Feb  
1999, PENDING  
DT Utility  
FS APPLICATION  
LN.CNT 1598  
INCL INCLM: 424/093.210  
INCLS: 424/093.700; 514/054.000; 424/085.100  
NCL NCLM: 424/093.210  
NCLS: 424/093.700; 514/054.000; 424/085.100  
IC [7]  
ICM: A61K048-00  
ICS: A61K045-00; A61K031-739; A61K038-19  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 137 OF 137 USPATFULL on STN  
AN 2001:202591 USPATFULL  
TI Methods of use for osetoprotegerin binding protein receptors  
IN Boyle, William J., Moorpark, CA, United States  
PA Amgen Inc., Thousand Oaks, CA, United States (U.S. corporation)  
PI US 6316408 B1 20011113  
AI US 1998-52521 19980330 (9)  
RLI Continuation-in-part of Ser. No. US 1997-880855, filed on 23 Jun 1997  
Continuation-in-part of Ser. No. US 1997-842842, filed on 16 Apr 1997,  
now patented, Pat. No. US 5843678

DT Utility  
FS GRANTED  
LN.CNT 1868  
INCL INCLM: 514/012.000  
INCLS: 530/350.000  
NCL NCLM: 514/012.000  
NCLS: 530/350.000  
IC [7]  
ICM: C07K014-00  
EXF 514/12; 530/350  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
STN INTERNATIONAL LOGOFF AT 17:23:37 ON 22 APR 2004